

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: November 29, 2005, 18:29:48 ; Search time 1867.5 Seconds
(without alignments)
450.960 Million cell updates/sec

Title: US-10-018-716B-2
Perfect score: 18
Sequence: 1 auaauauaggccugcuc 18

Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 41078325 seqs, 23393541228 residues

Word size : 0

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST:
1: gb_est1:
2: gb_est2:
3: gb_est3:
4: gb_htc:
5: gb_est4:
6: gb_est5:
7: gb_est6:
8: gb_est7:
9: gb_gss1:
10: gb_gss2:
11: gb_gss3:
*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17	94.4	794	1 AJ641058	AJ641058 AJ641058
c	2	88.9	312	2 BE153987	BE153987 PM0-HT033
c	3	88.9	340	3 BI432219	BI432219 EST35280
c	4	88.9	439	8 T14826	T14826 crs268 Lamb
c	5	88.9	500	3 BP11026	BP11026 RP11026
c	6	88.9	652	2 BG600462	BG600462 EST05357
c	7	88.9	740	8 CX409188	CX409188 JGI_XZT32
c	8	88.9	747	10 CL163941	CL163941 10 CL163941
c	9	88.9	752	10 CW838395	CW838395 fbb5001f0
c	10	88.9	759	2 BG889203	BG889203 EST515054
c	11	88.9	761	10 CL163940	CL163940 10 CL163940
c	12	88.9	1030	10 CL033121	CL033121 CH276-36A
c	13	83.3	85	6 CD963839	CD963839 SDY 133 G
c	14	83.3	95	10 CG56018	CG56018 OTI180267
c	15	83.3	102	10 CG671007	CG671007 OST72166
c	16	83.3	208	7 CO323095	CO323095 EKI89652
c	17	83.3	238	10 CG556891	CG556891 OST172871
c	18	83.3	247	8 CX626914	CX626914 GAN08N05
c	19	83.3	285	3 BI491822	BI491822 df15e12.w
c	20	83.3	306	2 BF353376	BF353376 QV1-HT063
c	21	83.3	308	2 BG184004	BG184004 RST2219 A
c	22	83.3	336	2 BG790049	BG790049 sae52d11.

ALIGNMENTS

RESULT 1	AJ641058	LOCUS	AJ641058 Populus tremula x P. tremuloideus/Amanita muscaria mixed	DEFINITION	EST library Populus tremula x P. tremuloideus/Amanita muscaria mixed
			AJ641058 Populus tremula x P. tremuloideus/Amanita muscaria mixed EST library cDNA clone ptamabc210068e03, mRNA sequence.		
		ACCESSION	AJ641058	VERSION	AJ641058.1 GI:58309785
		KEYWORDS	Populus tremula x P. tremuloideus/Amanita muscaria mixed EST library	ORGANISM	Populus tremula x P. tremuloideus/Amanita muscaria mixed EST library
		SOURCE	Eukaryota; mixed EST libraries.	ORGANISM	Eukaryota; mixed EST libraries.
		REFERENCE	1 ('bases 1 to 794)	AUTHORS	Bekel,T., Meyer,F., Kuester,H., Manthey,K., Perlick,A., Puehler,A., Bock,A. and Nehls,U.
		TITLE	ESTs of fully developed ectomycorrhizas formed between Populus tremula x tremuloideus and Amanita muscaria	JOURNAL	Unpublished (2005)
		COMMENT	Contact: Bekel,T. Physiologische Oekologie der Pflanzen Eberhard-Karls-Universität Auf der Morgenstelle 1, Tübingen, BW 72076, Germany.	Location/Qualifiers	
		FEATURES	Source	ORIGIN	1 . 794 organism="Populus tremula x P. tremuloideus/Amanita muscaria mixed EST library" /mol_type="mRNA" /db_xref="PTAXON:143775" /clone="ptamabc210068e03" /clone lib="Populus tremula x P. tremuloideus/Amanita muscaria mixed EST library"

DEFINITION	PMO-HT0339-060400-009-C04	HT0339	Homo sapiens	cDNA, mRNA sequence.
ACCESSION	BE153987	1	GI:8616617	
VERSION	EST.			
KEYWORDS				
SOURCE	Homo sapiens (human)			
ORGANISM	Eukaryota; Metzoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo			
REFERENCE	1. (bases 1 to 312)			
AUTHORS	Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordim, S., Costa, F.F., Goldmam, G.H., Carvalho, A.P., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis J.F., de Souza, S.J. and Simpson, A.J.			
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)			
PUBLISHED	10/7/800			
COMMENT	Ludwig Institute for Cancer Research Laboratory of Cancer Genetics Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil Tel: +55-11-2704922 Fax: +55-11-2707001 Email: asimpson@ludwig.org.br			
SEQUENCE TAGS	This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethm12.pl?t1=&t2=PMO-HT0339-060400-09-C04&t3=2000-04-06&t4=1)			
FEATURES	Seg. primer: puc 18 forward High quality sequence start: 7 High quality sequence stop: 226. Location/Qualifiers 1..312			
Source	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /dev_stage="Adult" /clone_lib="HT0339"			
DEFINITION	/notes="Organ: head neck; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the PUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."			
ACCESSION	EST			
VERSION	T14826			
KEYWORDS	Ricinus communis (castor bean)			
ORGANISM	Ricinus communis (castor bean)			
REFERENCE	1 (bases 1 to 419)			
AUTHORS	vandelo, F.J., Turner, S. and Somerville, C.			
TITLE	Expressed sequence tags from developing castor seeds			
JOURNAL	Plant Physiol. 118, 1141-1150 (1995)			
COMMENT	Contact: Somerville CR Carnegie Institution, 290 Panama St., Stanford, CA 94305 Tel: 4153251521 Email: crs@andrew.stanford.edu Seq primer: T3.			
LOCUS	BI432519/c			
DEFINITION	EST335280 P. infestans-challenged potato leaf, compatible reaction Solanum tuberosum cDNA clone PCAR82 5' sequence, mRNA sequence.			
ACCESSION	BI432519			
VERSION	BI432519.1			
KEYWORDS	Solanum tuberosum (potato)			
ORGANISM	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; asterids; lamids; Solanales; Solanaceae; Solanum.			
FEATURES	Location/Qualifiers			

source	1. .439 /organism="Ricinus communis" /mol type="mRNA" /strain="Baker 296" /db_xref="taxon:3988" /clone_lib="pcrs268" /note="Vector: LambdaZAPII; Site_1: EcoRI; Site_2: XbaI; Poly(A)+ RNA was purified from developing stage III to stage V (Greenwood & Bewley, Can. J. Bot. 60:1751-1760, 1982) endosperm plus embryo of immature castor fruits. cDNA was synthesized and cloned into LambdaZAPII according to the instructions of the manufacturer (Stratagene); synthesis was primed from the poly(A) tail, and cloned directionally into XbaI (3') and EcoRI (5') sites. In few cases, sequence data indicated that this directionality was reversed. Partial cDNA clones predominate."	Db	353 TAATTATGCCCTGCT 368
	RESULT 6 BG600462/c LOCUS EST503357 cSTS Solanum tuberosum cdNA clone cSTS2911 5', sequence, DEFINITION mRNA Sequence. ACCESSION BG600462 VERSION EST KEYWORDS Solanum tuberosum (potato) ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; asterids; lamiales; Solanales; Solanaceae; Solanum. REFERENCE van der Hoeven,R., Bezzerez,J., Sun,H., Cho,J., Chieming,A., AUTHORS Boueri,O., Bueli,C.R., Ronning,C., Tanksley,S., and Baker,B., TITLE Generations of ESTs from sprouting potato eyes JOURNAL Unpublished (2000) COMMENT Contact: Robin Buell The Institute for Genomic Research 9712 Medical Center Dr, Rockville, MD 20850, USA Email: Potato-array@tigr.org This clone can be obtained from the University of Arizona Genomics Institute. Orders can be made through URL: http://genome.arizona.edu/orders/ Seq primer: M13F-R.	Db	1. (bases 1 to 652) van der Hoeven,R., Bezzerez,J., Sun,H., Cho,J., Chieming,A., Boueri,O., Bueli,C.R., Ronning,C., Tanksley,S., and Baker,B., Unpublished (2000)
	FEATURES SOURCE Best Local Similarity 88.9%; Score 16; DB 8; Length 439; Matches 11; Conservative 68.8%; Pred. No. 1e+02; Mismatches 0; Indels 0; Gaps 0; Query Match 3 AAUAAUGCCCGUCUC 18 Db 332 AAATTGGCCCTGGTC 317	Db	1. .652 /organism="Solanum tuberosum" /mol type="mRNA" /cultivar="Kennebec" /db_xref="taxon:4113" /clone="cSTS2911" /tissue type="sprouting eyes from tubers" /dev_stge="12-14 weeks post harvest" /lab_host="SOLR" /clone_lib="cSTS2911" /note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2: XbaI; Various sizes of sprouting eyes (72mm to 15mm) were taken from tubers. The tubers were incubated at 26C in the dark for 2-3 weeks prior to sprouting. The eyes were frozen in liquid nitrogen immediately upon removal from tubers."
	ORIGIN Query Match 88.9%; Score 16; DB 2; Length 652; Best Local Similarity 68.8%; Pred. No. 1.e+02; Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	Db	1. .652 /clone_lib="cSTS2911" /note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2: XbaI; Various sizes of sprouting eyes (72mm to 15mm) were taken from tubers. The tubers were incubated at 26C in the dark for 2-3 weeks prior to sprouting. The eyes were frozen in liquid nitrogen immediately upon removal from tubers."
	RESULT 5 BP191026 LOCUS BP191026 planarian head cDNA clone 06171_HH, DEFINITION mRNA sequence. ACCESSION BP191026 VERSION EST KEYWORDS SOURCE Dugesia japonica ORGANISM Eukaryota; Metazoa; Platyhelminthes; Turbellaria; Seriata; Trichlida; Paludicola; Dugesiidae; Dugesia. Mineta,K., Nakazawa,M., Cebria,F., Ikeo,K., Agata,K. and Gojobori,T. TITLE Origin and evolutionary processes of the CNS elucidated by comparative genomics analysis of planarian ESTs PROC. NATL. ACAD. SCI. U.S.A. 100 (13), 7666-7671 (2003) JOURNAL Proc. Natl. Acad. Sci. U.S.A. PUBMED 12802012 COMMENT Contact: Katsuhiro Mineta National Institute of Genetics, Center for Information Biology and DNA Data Bank of Japan 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6847 Fax: 81-559-81-6848 Email: kmineta@lab.nig.ac.jp These clones and additional information are obtained from our web site: http://www.cib.nig.ac.jp/dna/ .	Db	1. .500 /organism="Dugesia japonica" /mol type="mRNA" /db_xref="taxon:6161" /clone="06171_HH" /tissue type="adult" /dev_stge="adult" /clone_lib="planarian head cDNA"
	ORIGIN Query Match 88.9%; Score 16; DB 3; Length 500; Best Local Similarity 62.5%; Pred. No. 1.e+02; Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;	Db	1. .500 /organism="Dugesia japonica" /mol type="mRNA" /db_xref="taxon:6161" /clone="06171_HH" /tissue type="adult" /dev_stge="adult" /clone_lib="planarian head cDNA"
	REFERENCE AUTHORS Richardson,P., Lucas,S., Rokhsar,D., Detter,J.C., Ng,D.C., Brokstein,P. and Lindquist,E.A.	Db	1. .536 AAATTATGCCCTGGTC 521 /clone_lib="cSTS2911" /note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2: XbaI; Various sizes of sprouting eyes (72mm to 15mm) were taken from tubers. The tubers were incubated at 26C in the dark for 2-3 weeks prior to sprouting. The eyes were frozen in liquid nitrogen immediately upon removal from tubers."
	RESULT 7 CX409188/c LOCUS JGI XT732096.fwd NIH XGC tropotaxis xenopus tropicalis cdNA clone DEFINITION IMAGE7608418 5', mRNA sequence. ACCESSION CX409188 VERSION EST KEYWORDS SOURCE Xenopus tropicalis (western clawed frog) ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Xenopodinae; Xenopus; Silurana. 1 (bases 1 to 740) REFERENCE AUTHORS Richardson,P., Lucas,S., Rokhsar,D., Detter,J.C., Ng,D.C., Brokstein,P. and Lindquist,E.A.	Db	1. .536 AAATTATGCCCTGGTC 521 /clone_lib="cSTS2911" /note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2: XbaI; Various sizes of sprouting eyes (72mm to 15mm) were taken from tubers. The tubers were incubated at 26C in the dark for 2-3 weeks prior to sprouting. The eyes were frozen in liquid nitrogen immediately upon removal from tubers."


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/mol type="Genomic DNA"
/cultivar="Arx623"
/db_xref="taxon:4558"
/clone_lib="Sorghum methylation filtered library (LibID:
104)"

/NOTE="Organ: leaf; Vector: pBCSK(-); Site 1: HincII; DNA
prepared from purified nuclei was randomly sheared, 0.5 to 5
kb fraction, size fractionated to enrich for the 0.5 to 5
kb fraction, ligated into HincII-digested pBCSK(-) vector
and electroporated into E. coli cells. This is a
methylation filtered library."

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ORIGIN

Query Match	Score 16;	DB 10;	Length 752;
Best Local Similarity	62.5%	Pred. No.	1.1e+02;
Matches 10;	Conservative	Mismatches	0;
Indels	0;	Gaps	0;

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Qy      2 UAAUAGGCCUGCU 17
Db      614 TAATTATGCCCTGT 599

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RESULT 10
LOCUS BG889203_1 cDNA clone EST cSTD1g2 5' sequence,
DEFINITION mRNA sequence.
ACCESSION BG889203_1 GI:14266289
VERSION EST.
KEYWORDS
ORGANISM Solanum tuberosum (potato)
Solanum tuberosum
Eukaryota; Viridiplantae; Streptophytina; Embryophytina;
Spermatophytina; Magnoliophytina; eudicots; core eudicots;
asterids; lamiids; Solanales; Solanaeae; Solanum.
REFERENCE 1 (bases 1 to 759)
AUTHORS van der Hoeven,R., Bezzerezides,J., Ewing,B., Cho,J., Chiemingo,A.,
Bougr,O., Buell,C.R., Ronning,C., Tanksley,S. and Baker,B.
TITLE Unpublished (2001)
JOURNAL Contact: Robin Buell
COMMENT The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Email: potato-array@tigr.org
This clone can be obtained from the University of Arizona Genomics
Institute. Orders can be made through URL:
http://genome.arizona.edu/orders/
Seq primer: M13F-R

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FEATURES

Source	1..759
/organism="Solanum tuberosum"	
/cultivar="Manan"	
/db_xref="taxon:4113"	
/clone="CSTD1g2"	
/tissue type="dormant tuber"	
/dev_stage="one month post-harvest"	
/lab_host="SOLR"	

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/NOTE="Vector: pBlueScript SK(-); Site 1: EcoRI; Site 2:
XbaI; This library targets genes expressed in dormant
tuber, avoiding the buds and epidermis. Tubers were stored
for one month post-harvest at 4°C. The tuber was peeled
well away from the surface. Then it was chopped into 1-2
mm cubes and immediately frozen in liquid nitrogen. This
library is noted as P4 in Tanksley lab notebooks."

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ORIGIN

Query Match	Score 16;	DB 2;	Length 759;
Best Local Similarity	68.8%	Pred. No.	1.1e+02;
Matches 11;	Conservative	Mismatches	5;
Indels	0;	Gaps	0;

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Qy      3 AAUUAUGGCCUGCU 18
Db      621 ATTATGCCCTGT 606

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/mol type="Genomic DNA"
/cultivar="Arx623"
/db_xref="taxon:4558"
/clone_lib="Sorghum methylation-filtered library
(LibID: 104) Sorghum_bicolor genomic clone 10813405, genomic survey
sequence.

```

ORIGIN

Qy	3 AAUUAUGGCCUGCU 18	Db	621 ATTATGCCCTGT 606
RESULT 11	CL169940/c	LOCUS CL169940	CL169940 bp
DEFINITION 104 370 10813405 116 31789 109 Sorghum methylation-filtered library (LibID: 104) Sorghum_bicolor genomic clone 10813405, genomic survey sequence.	ORGANISM Sorghum bicolor (sorghum)	ORGANISM Sorghum bicolor	ORGANISM Sorghum bicolor
ACCESSION CL169940	KEYWORDS Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACCD	KEYWORDS Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACCD	KEYWORDS Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACCD
VERSION CL169940.1	VERSION CL169940.1	VERSION CL169940.1	VERSION CL169940.1
REFERENCE 1 (bases 1 to 761)	AUTHORS Bedell,J.A., Budiman,M.A., Nunberg,A., Citek,R.W., Robbins,D., Jones,J.J., Flick,E., Rohlfing,T., Fries,J.J., Bradford,K., McMenemy,J., Smith,M., Holman,H., Roe,B.A., Wiley,G., Korf,I.F., Rabinowicz,P.D., Lakey,N., McCombie,W.R., Jeddoh,J.A. and Martienssen,R.A.	COMMENT PLoS Biol. 3 (1), e13 (2005)	COMMENT PLoS Biol. 3 (1), e13 (2005)
TITLE JOURNAL PLoS Biol. 3 (1), e13 (2005)	PUBLMED 15660154	CONTACT Bedell, JA	CONTACT Bedell, JA
ORGANISM Orion Genomics, LLC	COMMENT Orion Genomics, LLC	PHONE 4041 Forest Park Ave., St. Louis, MO 63108, USA	PHONE 4041 Forest Park Ave., St. Louis, MO 63108, USA
DEFINITION mRNA sequence.	COMMENT Orion Genomics, LLC	FAX 314 615 5915	FAX 314 615 5915
ACCESSION BG889203_1	VERSION EST.	EMAIL jbedell@oriongenomics.com	EMAIL jbedell@oriongenomics.com
VERSION BG889203_1	DEFINITION EST.	PLACE 370 row:e column: 13	PLACE 370 row:e column: 13
KEYWORDS	ORGANISM Solanum tuberosum	SEQ PRIMER T3 Reverse	SEQ PRIMER T3 Reverse
ORGANISM Solanum tuberosum	DEFINITION mRNA sequence.	CLASS methylation filtered	CLASS methylation filtered
Eukaryota; Viridiplantae; Streptophytina; Embryophytina;	Eukaryota; Viridiplantae; Streptophytina; Embryophytina;	HIGH QUALITY SEQUENCE STOP: 761.	HIGH QUALITY SEQUENCE STOP: 761.
Spermatophytina; Magnoliophytina; eudicots; core eudicots;	Spermatophytina; Magnoliophytina; eudicots; core eudicots;	LOCATION/QUALIFIERS	LOCATION/QUALIFIERS
asterids; lamiids; Solanales; Solanaeae; Solanum.	asterids; lamiids; Solanales; Solanaeae; Solanum.	ORGANISM "Sorghum bicolor"	ORGANISM "Sorghum bicolor"
1 (bases 1 to 759)	REFERENCE 1 (bases 1 to 759)	/mol type="Genomic DNA"	/mol type="Genomic DNA"
van der Hoeven,R., Bezzerezides,J., Ewing,B., Cho,J., Chiemingo,A.,	van der Hoeven,R., Bezzerezides,J., Ewing,B., Cho,J., Chiemingo,A.,	/cultivar="ATx623"	/cultivar="ATx623"
Bougr,O., Buell,C.R., Ronning,C., Tanksley,S. and Baker,B.	Bougr,O., Buell,C.R., Ronning,C., Tanksley,S. and Baker,B.	/db_xref="taxon:4558"	/db_xref="taxon:4558"
Generations of ESTs from dormant potato tubers	Generations of ESTs from dormant potato tubers	/clone="10813405"	/clone="10813405"
Unpublished (2001)	Unpublished (2001)	COMMENT "Sorghum methylation-filtered library (LibID:	COMMENT "Sorghum methylation-filtered library (LibID:
Contact: Robin Buell	Contact: Robin Buell	104)"	104)"
The Institute for Genomic Research	The Institute for Genomic Research	NOTE="Organ: leaf; Vector: pBCSK(-); Site 1: HincII; DNA	NOTE="Organ: leaf; Vector: pBCSK(-); Site 1: HincII; DNA
9712 Medical Center Dr., Rockville, MD 20850, USA	9712 Medical Center Dr., Rockville, MD 20850, USA	prepared from purified nucleic acid was randomly sheared,	prepared from purified nucleic acid was randomly sheared,
Email: potato-array@tigr.org	Email: potato-array@tigr.org	end-repaired, size fractionated to enrich for the 0.5 to 5	end-repaired, size fractionated to enrich for the 0.5 to 5
This clone can be obtained from the University of Arizona Genomics	This clone can be obtained from the University of Arizona Genomics	kb fraction, ligated into E. coli cells. This is a	kb fraction, ligated into E. coli cells. This is a
Institute. Orders can be made through URL:	Institute. Orders can be made through URL:	methylation-filtered library."	methylation-filtered library."
http://genome.arizona.edu/orders/	http://genome.arizona.edu/orders/	ORIGIN	ORIGIN
Seq primer: M13F-R	Seq primer: M13F-R	Query Match 88.9%; Score 16; DB 10; Length 761;	Query Match 88.9%; Score 16; DB 10; Length 761;
1..759	1..759	Best Local Similarity 62.5%; Pred. No. 1.1e+02;	Best Local Similarity 62.5%; Pred. No. 1.1e+02;
/organism="Solanum tuberosum"	/organism="Solanum tuberosum"	Matches 6; Mismatches 0; Indels 0; Gaps 0;	Matches 6; Mismatches 0; Indels 0; Gaps 0;
/cultivar="Manan"	/cultivar="Manan"		
/db_xref="taxon:4113"	/db_xref="taxon:4113"		
/clone="CSTD1g2"	/clone="CSTD1g2"		
/tissue type="dormant tuber"	/tissue type="dormant tuber"		
/dev_stage="one month post-harvest"	/dev_stage="one month post-harvest"		
/lab_host="SOLR"	/lab_host="SOLR"		

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/mol type="Genomic DNA"
/cultivar="Arx623"
/db_xref="taxon:4558"
/clone_lib="Sorghum methylation-filtered library
(LibID: 104) Sorghum_bicolor genomic clone 10813405, genomic survey
sequence.

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ORIGIN

Qy	2 UAAUAGGCCUGCU 17	Db	654 TAATATGCCCTCT 639
RESULT 12	LOCUS CL033121	DEFINITION CH216-36A12-Sp6.1 CH216 Xenopus tropicalis genomic clone GSS 31-DEC-2003	DEFINITION CH216-36A12-Sp6.1 CH216 Xenopus tropicalis genomic clone GSS 31-DEC-2003
ACCESSION CL033121	VERSION CL033121	KEYWORDS CH216-36A12, genomic survey sequence.	KEYWORDS CH216-36A12, genomic survey sequence.

SOURCE	Xenopus tropicalis (western clawed frog)	ORIGIN	Query Match Score 15; DB 6; Length 85;
ORGANISM	Xenopus tropicalis	Best Local Similarity 66.7%; Pred. No. 3.8e-02;	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae; Xenopodinae; Xenopus; Sillurana.	Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	
AUTHORS	Kremitzki,C., Carter,J., McPharson,J., Warren,W., Graves,T., Mardi,E. and Wilson,R.		
TITLE	A physical map of the <i>Xenopus tropicalis</i> genome		
JOURNAL	Unpublished (2003)		
COMMENT	Contact: Richard K Wilson Genome Sequencing Center Washington University School of Medicine Email: submissions@watson.wustl.edu Insert Length: 175000 Std Error: 0.00 Seq primer: Sp6 ATTAGGTACATATAG		
FEATURES	Class: BAC ends		
SOURCE	High Quality sequence start: 29 High Quality sequence stop: 943. Location/Qualifiers 1..1030 /organism="Xenopus tropicalis" /mol_type="genomic DNA" /strain="Nigerian frog" /db_xref="Taxon:8364" /clone="CH216-36A12" /sex="male" /cell_line="Stock 2A8 F7A2, inbred N7" /clone_lib="CH216" /note="Vector: PTARBA2C.1; CHORI-216 Xenopus tropicalis BAC library"		
ORIGIN	Query Match Score 16; DB 10; Length 1030; Best Local Similarity 68.8%; Pred. No. 1.1e+03; Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;		
Qy	1 AUAAUAGGCCUGC 16	Query Match Score 15; DB 10; Length 95;	
Db	32 ATTAATTGGCCCTGC 47	Best Local Similarity 66.7%; Pred. No. 3.8e-02;	
RESULT 13	CD963839	Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;	
LOCUS	CD963839 Geneteg2 Zea mays cDNA, mRNA sequence.		
DEFINITION	SDY_133 Geneteg2 Zea mays cDNA, mRNA sequence.		
VERSION	CD963839		
KEYWORDS	CD963839.1. GI:32894117		
SOURCE	EST.		
ORGANISM	Zea mays		
REFERENCE	Zea mays Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; clade: Panoicoideae; Andropogoneae; Zea.		
AUTHORS	Genoplante.		
TITLE	Genoplante, a major partnership french program in plant genomics		
JOURNAL	Unpublished (2003)		
COMMENT	Contact: Genoplante 93, Rue Henri Rochefort 91025 EVRY CEDEX France Tel: 33 1 69 47 54 00 Fax: 33 1 69 47 54 10	This sequence has been generated in the framework of the french plant genomics programme 'Genoplante' (http://www.genoplante.com and http://genoplante-info.biogen.fr).	
FEATURES	Location/Qualifiers 1..85 /organism="Zea mays" /mol_type="mRNA" /cultivar="mixture" /db_xref="Taxon:4577" /clone_lib="GeneTag2"		
SOURCE	CG671007/c	Query Match Score 15; DB 10; Length 102 bp	
ORIGIN	CG671007 Mus musculus 129sv/Ev mRNA linear	mRNA	GSS 02-OCT-2003
DEFINITION	CG671007 Mus musculus 129sv/Ev mRNA linear	cDNA clone	CG671007
VERSION	CG671007.1 GI:37494856		
KEYWORDS	GSS		
SOURCE	Mus musculus (house mouse)		

ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Muriinae; Muridae; Murinae; Mus.
 Sciuromorpha; Muroidea; Muridae; Murinae; Mus.

REFERENCE
 1 (bases 1 to 102)

AUTHORS Zambrowicz, B.P., Beltran del Rio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
 Fridge, C.J., Gupta, A., Ramirez-Solis, R., Richter, L.J.,
 Key, B.W., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Jaing, C.,
 Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
 Sparks, M.J., van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
 Zhu, Q., Person, C. and Sands, A.T.

TITLE Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)

PUBMED 14610273

COMMENT Contact: Zambrowicz BP

OmniBank Lexicon Genetics Incorporated
 4000 Research Forest Drive, The Woodlands, TX 77381, USA
 Email: materials@lexgen.com

Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)

FEATURES Class: Gene Trap.

source Location/Qualifiers

1. .102
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="129SV/Ev"
 /db_xref="Saxxon:10090"
 /clone="OS472166"
 /cell_type="embryonic stem cell"
 /clone_lib="Mus musculus 129SV/Ev"

ORIGIN

Query Match	83.3%	Score 15;	DB 10;	Length 102;
Best Local Similarity	66.7%	Pred. No.	3. 8e+02;	
Matches	10;	Matches	5;	Mismatches 0;
Conservative		Indels	0;	Gaps 0;

Qy 2 URAUUAUGGCCUC 16
 Db :||:|||||:|||:
 42 TAATTATGCCCTGC 28

Search completed: November 30, 2005, 00:44:45
 Job time : 1867.5 secs

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GenCore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 136.5 Seconds
 (without alignment)
 19.597 Million cell updates/sec

Title: US-10-018-716B-2
 Perfect score: 18
 Sequence: 1 auaauauaggccugcuc 18

Scoring table: OLIGO_NUC
 Gapext 60.0 , Gapext 60.0

Searched: 3205263 seqs, 74304013 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6410536

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications_NA_New:
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 2: /cgcn2_6_ptodata/2/pubnra/US06_NEW_PUB_SEQ:
 3: /cgcn2_6_ptodata/2/pubnra/US07_NEW_PUB_SEQ:
 4: /cgcn2_6_ptodata/2/pubnra/US08_NEW_PUB_SEQ:
 5: /cgcn2_6_ptodata/2/pubnra/US09_NEW_PUB_SEQ:
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 7: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB_SEQ:
 8: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB_SEQ:
 9: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB_SEQ:
 10: /cgcn2_6_ptodata/2/pubnra/US60_NEW_PUB_SEQ:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	
1	14	77.8	1149	9 US-11-082-389-213	Sequence 210, App	
2	12	66.7	19	8 US-11-082-389-213	Sequence 172294,	
c	3	12	66.7	19	8 US-11-101-244-339765	Sequence 339765,
	4	12	66.7	19	8 US-11-101-244-50029	Sequence 60029,
	5	12	66.7	19	8 US-11-101-244-104082	Sequence 104082,
	6	12	66.7	19	8 US-11-101-244-104118	Sequence 104118,
	7	12	66.7	19	8 US-11-101-244-1152178	Sequence 1152178,
	8	12	66.7	19	8 US-11-101-244-1152276	Sequence 1152276,
	9	12	66.7	19	8 US-11-101-244-1311525	Sequence 1311525,
	10	12	66.7	19	8 US-11-101-244-1430673	Sequence 1430673,
	11	12	66.7	19	8 US-11-101-244-1430674	Sequence 1430674,
	12	12	66.7	19	9 US-11-083-784-173294	Sequence 173294,
c	13	12	66.7	19	9 US-11-083-784-339765	Sequence 339765,
	14	12	66.7	19	9 US-11-083-784-50029	Sequence 60029,
	15	12	66.7	19	9 US-11-083-784-104082	Sequence 104082,
	16	12	66.7	19	9 US-11-083-784-104118	Sequence 104118,
	17	12	66.7	19	9 US-11-083-784-1152278	Sequence 1152278,
	18	12	66.7	19	9 US-11-083-784-1152276	Sequence 1152276,
	19	12	66.7	19	9 US-11-083-784-1311535	Sequence 1311535,
c	20	12	66.7	19	9 US-11-083-784-1430673	Sequence 1430673,
c	21	12	66.7	19	9 US-11-083-784-1430674	Sequence 1430674,
c	22	12	66.7	844	9 US-11-082-389-441	Sequence 441, App
c	23	12	66.7	1095	9 US-11-082-389-439	Sequence 439, App

ALIGNMENTS

RESULT 1
 US-11-082-389-213
 ; Sequence 213, Application US/11082389
 ; Publication No. US20050244935A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Pompejus, Markus
 ; APPLICANT: Krueger, Burkhard
 ; APPLICANT: Schroeder, Hartwig
 ; APPLICANT: Zelder, Oskar
 ; APPLICANT: Haberhauer, Gregor
 ; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
 ; FILE REFERENCE: BGI-131CPCN
 ; CURRENT APPLICATION NUMBER: US/11/082-389
 ; PRIOR APPLICATION NUMBER: US 09/603024
 ; PRIOR FILING DATE: 2000-06-23
 ; PRIOR APPLICATION NUMBER: US 60/141031
 ; PRIOR FILING DATE: 1999-06-25
 ; PRIOR APPLICATION NUMBER: US 60/143262
 ; PRIOR APPLICATION NUMBER: US 60/151281
 ; PRIOR FILING DATE: 1999-07-09
 ; PRIOR APPLICATION NUMBER: DE 19930487-4
 ; PRIOR FILING DATE: 1999-07-01
 ; PRIOR APPLICATION NUMBER: DE 19930489-0
 ; PRIOR FILING DATE: 1999-07-01
 ; PRIOR APPLICATION NUMBER: DE 19931549-3
 ; PRIOR FILING DATE: 1999-07-08
 ; PRIOR APPLICATION NUMBER: DE 19931550-7
 ; PRIOR FILING DATE: 1999-07-08
 ; PRIOR APPLICATION NUMBER: DE 19932134-5
 ; PRIOR FILING DATE: 1999-07-09
 ; PRIOR APPLICATION NUMBER: DE 19941379-7
 ; PRIOR FILING DATE: 1999-08-31
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 446
 ; SEQ ID NO 213
 ; LENGTH: 1149
 ; TYPE: DNA
 ; ORGANISM: Corynebacterium glutamicum
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (101)..(1126)
 ; OTHER INFORMATION: RKN00523

US-11-082-389-213
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 Gaps 0;
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 ::|||:|||:|||:
 Db 229 TTTGGCCCTGTC 242

RESULT 2
 US-11-101-244-173294
 ; Sequence 173294, Application US/11101244
 ; Publication No. US20050246794A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khvorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIORITY NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 173294
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-173294

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;
 Qy 6 UAUAGGCCUGCU 17
 ::|||:|||:|||:
 Db 3 UAUAGGCCUGCU 14

RESULT 4
 US-11-101-244-600029
 ; Sequence 600029, Application US/11101244
 ; Publication No. US20050246794A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khvorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIORITY NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 600029
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-600029

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 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
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RESULT 5
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 ; Sequence 1044082, Application US/11101244
 ; Publication No. US20050246794A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khvorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIORITY NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 1044082
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-1044082

RESULT 3
 US-11-101-244-339765/C
 ; Sequence 339765, Application US/11101244
 ; Publication No. US20050246794A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khvorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIORITY NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 339765
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-339765

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0; Gaps 0;

Qy 7 AUGGCCUGCUC 18
 |||||||
 Db 3 AUGGCCUGCUC 14

RESULT 6
 US-11-101-244-1044118
 ; Sequence 1044118, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 1044118
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 US-11-101-244-1044118

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 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0; Gaps 0;

Qy 7 AUGGCCUGCUC 18
 |||||||
 Db 5 AUGGCCUGCUC 16

RESULT 7
 US-11-101-244-1152178
 ; Sequence 1152178, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 1152178
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 US-11-101-244-1152178

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Qy 7 AUGGCCUGCU 18
 Qy 1 AUAAUUAUGGCC 12
 Db 3 AURAUUAUGGCC 14

RESULT 10
 US-11-101-244-1430673/c
 Sequence 1430673, Application US/11101244
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/101/244
 CURRENT FILING DATE: 2005-04-07
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2003-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 1430673
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-1430673

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 75.0%; Pred. No. 34;
 Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0; Qy 7 AUGGCCUGCU 18
 Db 12 ATGGCCCTGTC 1

RESULT 11
 US-11-101-244-1430674/c
 Sequence 1430674, Application US/11101244
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/101/244
 CURRENT FILING DATE: 2005-04-07
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2003-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 1430674
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-1430674

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 75.0%; Pred. No. 34;
 Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

RESULT 12
 US-11-083-784-173294
 Sequence 173294, Application US/11083784
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/083/784
 CURRENT FILING DATE: 2005-03-18
 PRIORITY NUMBER: US/10/714,333
 PRIOR FILING DATE: 2003-11-14
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIORITY NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 173294
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-083-784-173294

Query Match 66.7%; Score 12; DB 9; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 13
 US-11-083-784-339765/c
 Sequence 339765, Application US/11083784
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/083/784
 CURRENT FILING DATE: 2005-03-18
 PRIORITY NUMBER: US/10/714,333
 PRIOR FILING DATE: 2003-11-14
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIORITY NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 339765
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-083-784-339765

Query Match 66.7%; Score 12; DB 9; Length 19;
 Best Local Similarity 66.7%; Pred. No. 34;
 Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 ORGANISM: Homo sapiens
 US-11-083-784-1044082

Qy 2 UAAUUAUGGCC 13
 :|||:|||||
 Db 19 TAATTATGGCCC 8

RESULT 14

US-11-083-784-600029, Application US/11083784
 i Sequence 600029, Application US/11083784
 i Publication No. US20050245475A1
 i GENERAL INFORMATION:
 i APPLICANT: Dharmacon, Inc.
 i APPLICANT: Khvorova, Anastasia
 i APPLICANT: Reynolds, Angela
 i APPLICANT: Leake, Devin
 i APPLICANT: Marshall, William
 i APPLICANT: Scaringe, Stephen
 i TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 i FILE REFERENCE: 13499US
 i CURRENT APPLICATION NUMBER: US/11/083 ,784
 i CURRENT FILING DATE: 2005-03-18
 i PRIOR APPLICATION NUMBER: US/10/714 ,333
 i PRIOR FILING DATE: 2003-11-14
 i PRIOR APPLICATION NUMBER: 60/502,050
 i PRIOR FILING DATE: 2003-09-10
 i PRIOR APPLICATION NUMBER: 60/426,137
 i PRIOR FILING DATE: 2002-11-14
 i NUMBER OF SEQ ID NOS: 1591911
 i SOFTWARE: Proprietary
 i SEQ ID NO: 600029
 i LENGTH: 19
 i TYPE: RNA
 i ORGANISM: Homo sapiens
 i SEQ ID NO: 600029

Query Match 66.7%; Score 12; DB 9; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ORGANISM: Homo sapiens
 US-11-083-784-600029

Qy 7 AUGGCCUCUC 18
 :|||:|||||
 Db 3 AUGGCCUCUC 14

RESULT 15

US-11-083-784-1044082

Sequence 1044082, Application US/11083784
 i Publication No. US20050245475A1
 i GENERAL INFORMATION:
 i APPLICANT: Dharmacon, Inc.
 i APPLICANT: Khvorova, Anastasia
 i APPLICANT: Reynolds, Angela
 i APPLICANT: Leake, Devin
 i APPLICANT: Marshall, William
 i APPLICANT: Scaringe, Stephen
 i TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 i FILE REFERENCE: 13499US
 i CURRENT APPLICATION NUMBER: US/11/083 ,784
 i CURRENT FILING DATE: 2005-03-18
 i PRIOR APPLICATION NUMBER: US/10/714 ,333
 i PRIOR FILING DATE: 2003-11-14
 i PRIOR APPLICATION NUMBER: 60/502,050
 i PRIOR FILING DATE: 2003-09-10
 i PRIOR APPLICATION NUMBER: 60/426,137
 i PRIOR FILING DATE: 2002-11-14
 i NUMBER OF SEQ ID NOS: 1591911
 i SOFTWARE: Proprietary
 i SEQ ID NO: 1044082
 i LENGTH: 19
 i TYPE: RNA

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OM nucleic - nucleic search, using SW model

Run on: November 29, 2005, 17:06:31 ; Search time 72 Seconds
(without alignments)

444,390 Million cell updates/sec

Title: US-10-018-716B-2

Perfect score: 18

Sequence: 1 auauauuggccugcuc 18

Scoring table: OLIGO_NUC Gapext 60.0 , Gapext 60.0

Searched: 1303057 seqs, 898780828 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :	Issued Patents NA:*
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	8: /cgm2_6_ptodata/1/ina/PP_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	18	100.0	2179	2	US-08-487-886-1	Sequence 1, Appli
2	18	100.0	2179	2	US-08-531-070A-1	Sequence 1, Appli
3	18	100.0	2179	3	US-08-482-855-1	Sequence 1, Appli
4	18	100.0	2179	3	US-08-474-986-1	Sequence 1, Appli
5	18	100.0	2393	3	US-09-016-334-1209	Sequence 1209, Ap
6	15	83.3	481	3	US-09-270-767-1666	Sequence 1666, Ap
7	15	83.3	481	3	US-09-270-767-1694	Sequence 1694, Ap
8	15	83.3	52992	3	US-09-949-016-16105	Sequence 16105, A
9	14	77.8	900	3	US-09-489-039A-6996	Sequence 6996, Ap
10	14	77.8	1149	3	US-09-787A-379	Sequence 379, App
c 11	14	77.8	1887	3	US-09-620-012D-42	Sequence 42, Appli
12	14	77.8	3678	3	US-09-112-580-13	Sequence 13, Appli
c 13	14	77.8	3762	3	US-09-489-039A-4926	Sequence 4926, Ap
14	14	77.8	55264	3	US-09-949-016-15014	Sequence 15014, A
c 15	14	77.8	70828	3	US-09-949-016-12122	Sequence 12122, A
16	14	77.8	94755	3	US-09-949-016-11839	Sequence 11839, A
17	14	77.8	101951	3	US-09-949-016-15648	Sequence 15648, A
18	14	77.8	137226	3	US-09-949-016-13763	Sequence 13763, A
c 19	14	77.8	139936	3	US-09-949-016-11782	Sequence 11782, A
c 20	14	77.8	139952	3	US-09-949-016-13280	Sequence 13280, A
21	14	77.8	147840	3	US-09-949-016-15236	Sequence 15236, A
22	13	72.2	25	3	US-09-396-196G-44948	Sequence 44948, A
23	13	72.2	339	3	US-09-489-039A-0054	Sequence 6054, Ap
c 24	13	72.2	459	3	US-09-248-796A-1604	Sequence 1604, Ap

RESULT 1
US-08-187-886-1

; Sequence 1, Application US/084878886
; Patent No. 5744448
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christine Ann
; SCHWICKHARDT, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 5744448
; TITLE OF INVENTION: Human Follicle Stimulating
; Hormone Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephan P. Williams,
; Arcos-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Mass81 via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487, 886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670, 085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; TELEFAX: (617) 723-8923
; REGISTRATION NUMBER: 28546
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179
; TELECOMMUNICATION INFORMATION:
; TYPE: Nucleic acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:

ORGANISM: Homo sapiens
 TISSUE TYPE: Testis
 IMMEDIATE SOURCE: Clontech #HL1010b
 LIBRARY: 19G11 cDNA library, Clontech #HL1010b
 CLONE: PHFSHR11-11, PHFSHR15-6
 FEATURE: protein coding region
 NAME/KEY: protein coding region
 LOCATION: 75 to 2159
 US-08-487-086-1

Query Match 100.0%; Score 18; DB 2; Length 2179;
 Best Local Similarity 66.7%; Pred. No. 0.21;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUUAUGGCCUGCU 18
 Db 69 ATATTATGGCCCTGC 86

RESULT 2
 US-08-531-070A-1

Sequence 1, Application US/08482855
 GENERAL INFORMATION:
 / APPLICANT: Kelton, Christie Ann
 / APPLICANT: Schweikhart, Rene Lynn
 / APPLICANT: Chang, Shirley Vui Yen
 / APPLICANT: Nugent, No. 6121016en Patrice
 / TITLE OF INVENTION: Human Follicle Stimulating
 / NUMBER OF SEQUENCES: 2
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
 / COMPUTER: IBM PS/2, model 55 SX
 / OPERATING SYSTEM: MS-DOS version 4.0
 / SOFTWARE: VAX/VMS Masell via Kermit to IBM MS-DOS
 / CURRENT APPLICATION DATA:
 / ATTORNEY/AGENT INFORMATION:
 / APPLICATION NUMBER: US/08/482,855
 / FILING DATE: 07-JUN-1995
 / CLASSIFICATION: 435
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: 07/670,085
 / FILING DATE: 15-MAR-1991
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Williams, Stephan P.
 / REGISTRATION NUMBER: 28546
 / REFERENCE/DOCKET NUMBER: US/252
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (617) 723-1300
 / TELEFAX: (617) 723-8223
 / INFORMATION FOR SEQ ID NO: 1:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 2179
 / TYPE: Nucleic acid
 / STRANDEDNESS: Double
 / TOPOLOGY: Linear
 / MOLECULE TYPE: cDNA to mRNA
 / ORIGINAL SOURCE:
 / ORGANISM: Homo sapiens
 / TISSUE TYPE: Testis
 / IMMEDIATE SOURCE:
 / LIBRARY: 19G11 cDNA library, Clontech #HL1010b
 / CLONE: PHFSHR11-11, PHFSHR15-6
 / FEATURE:
 / NAME/KEY: protein coding region
 / LOCATION: 75 to 2159
 / US-08-482-855-1

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Qy 1 AUAAUUAUGGCCUGCU 18
 Db 69 ATATTATGGCCCTGC 86

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Query Match 100.0%; Score 18; DB 2; Length 2179;
 Best Local Similarity 66.7%; Pred. No. 0.21;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUUAUGGCCUGCU 18
 Db 69 ATATTATGGCCCTGC 86

TITLE OF INVENTION: Human Follicle Stimulating Hormone Receptor
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Stephan P. Williams,
 Ares-Serono, Inc.,
 STREET: Exchange Place, 37th floor
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
 COMPUTER: IBM PS/2, model 55 SX
 OPERATING SYSTEM: MS-DOS version 4.0
 SOFTWARE: VAX/VMS Massail via Kermit to IBM MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/474,986
 FILING DATE: 07-Jun-1995
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/670,085
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Stephan P.
 REGISTRATION NUMBER: 28546
 REFERENCE/DOCKET NUMBER: US/252
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 723-1300
 TELEFAX: (617) 723-8923
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2179
 TYPE: Nucleic acid
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA to mRNA
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 TISSUE TYPE: Testis
 IMMEDIATE SOURCE:
 LIBRARY: 19t11 cDNA library, ClonTech #HL1010b
 CLONE: PHFSHRI1-11, PHFSHRI1-6
 FEATURE:
 NAME/KEY: protein coding region
 LOCATION: 75 to 2159
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-08-474-986-1

Query Match 100.0%; Score 18; DB 3; Length 2179;
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RESULT 5
 US-09-016-434-1209
 ; Sequence 1209, Application US/09016434
 ; Patent No. 6500538
 ; GENERAL INFORMATION:
 ; APPLICANT: Janice Au-Young
 ; APPLICANT: Jeffrey J. Seilhamer
 ; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
 ; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
 ; NUMBER OF SEQUENCES: 1490
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 ; STREET: 3174 PORTER DRIVE
 ; CITY: PALO ALTO
 ; STATE: CALIFORNIA

COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/016,434
 FILING DATE: HEREWITH
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Zeller, Karen J.
 REGISTRATION NUMBER: 37,071
 REFERENCE/DOCKET NUMBER: PA-0002 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 855-0555
 TELEFAX: (650) 845-4166
 INFORMATION FOR SEQ ID NO: 1209:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2393 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: GENBANK
 CLOONE: 9182770
 US-09-016-434-1209

Query Match 100.0%; Score 18; DB 3; Length 2393;
 Best Local Similarity 66.7%; Pred. No. 0.21; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUAUAGGCCUGUC 18
 Db 61 ATATTATTGGCCCTGCTC 78

RESULT 6
 US-09-270-767-1666
 ; Sequence 1666, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,167
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1666
 ; LENGTH: 481
 ; TYPE: DNA
 ; ORGANISM: Drosophila melanogaster
 US-09-270-767-1666

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 Best Local Similarity 66.7%; Pred. No. 12; Mismatches 5; Indels 0; Gaps 0;

Qy 4 AUUUGGCCUGUC 18
 Db 185 ATTGGCCCTGCTC 199

RESULT 7
 US-09-270-767-16948
 ; Sequence 16948, Application US/09270767
 ; Patent No. 6703491

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; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-194
; CURRENT FILING DATE: US/09/270,767
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 16948
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
; SEQ ID NO: 16948
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
; SEQ ID NO: 6996
; LENGTH: 900
; Gaps: 0;
; Indels: 0;
; Score: 14;
; DB: 3;
; Length: 900;

Query Match 83.3%; Score 15; DB 3; Length 481;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 10; Conservative 5; Mismatches 0; Gaps 0;
Indels 0;

Qy 4 AUUAUGCCUCGUC 18
Db 185 ATTATGCCCTGTC 199

RESULT 10
US-09-602-787A-379
; Sequence 379, Application US/09602787A
; Patent No. 6696561
; GENERAL INFORMATION:
; APPLICANT: Pompeljus, Mark
; APPLICANT: Kriger, Burkhard
; APPLICANT: Schidler, Harrig
; APPLICANT: Zeller, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-125CP
; CURRENT APPLICATION NUMBER: US/09/602,787A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: USN 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931454.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931478.0
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931563.9
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932122.1
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932124.8
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932180.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932182.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932190.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932191.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932287.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19940764.9
; PRIOR FILING DATE: 1999-08-27

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO 01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 16105
; LENGTH: 52992
; TYPE: DNA
; ORGANISM: Human
; SEQ ID NO: 16105
; LENGTH: 52992
; Gaps: 0;
; Indels: 0;

Query Match 83.3%; Score 15; DB 3; Length 52992;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 10; Conservative 5; Mismatches 0; Gaps 0;
Indels 0;

Qy 1 AUUAUAGGCCUCG 15
Db 1241 ATTAATTATGGCCCTG 1227

RESULT 9
US-09-489-039A-6996
; Sequence 6996, Application US/09489039A
; Patent No. 6610835
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709-2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-27
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO: 6996
; LENGTH: 900

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; ORGANISM: Klebsiella pneumoniae
; FEATURE: misc_feature
; NAME/KEY: unsure
; LOCATION: (1044),(1659)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-489-039A-4926

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Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
Qy 5 UUAUGGCCUGCU 18
Db 3722 TTAGGCCCTGCTC 3709

Search completed: November 29, 2005, 18:25:00
Job time : 73 secs

RESULT 14
US-09-949-016-15014
; Sequence 15014, Application US/09949016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 15014
; LENGTH: 55264
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15014

Query Match 77.8%; Score 14; DB 3; Length 55264;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
Qy 2 UAAUUAUGGCCUG 15
Db 41065 TAATTATGCCCTG 41078

RESULT 15
US-09-949-016-12122/C
; Sequence 12122, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 12122
; LENGTH: 70828
; TYPE: DNA
; ORGANISM: Human

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M nucleic - nucleic search, using sw model

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searched: 9793542 seqs, 413468905 residues

word size : 0

Total number of hits satisfying chosen parameters: 19587084

minimum DB seq length: 0 maximum DB seq length: 2000000000

post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

No.	Score	Query	Match	Length	DB	ID	Description
1	18	100.0	441	4	US-09-925-065A-192589	Sequence 192589,	
2	18	100.0	441	4	US-09-925-065A-192590	Sequence 192590,	
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5	18	100.0	2393	5	US-10-225-567A-121	Sequence 121, Appli	
6	18	100.0	2393	5	US-10-207-655-64	Sequence 64, Appli	
7	18	100.0	2393	6	US-10-305-720-1209	Sequence 1209, Appli	
8	16	88.9	201	8	US-10-719-993-38795	Sequence 38475, A	
9	16	88.9	612	4	US-09-925-065A-391076	Sequence 391076,	
10	16	88.3	2613	8	US-10-719-993-6882	Sequence 6882, Ap	
11	15	83.3	461	4	US-09-925-065A-328046	Sequence 328046,	
c 12	15	83.3	507	6	US-10-172-118-2085	Sequence 2085, Ap	
c 13	15	83.3	503	7	US-10-342-887-2085	Sequence 2085, Ap	
c 14	15	83.3	533	4	US-09-925-065A-520324	Sequence 520324,	
c 15	15	83.3	544	4	US-09-925-065A-539398	Sequence 539398,	
c 16	15	83.3	612	5	US-10-007-280A-106	Sequence 106, Ap	
c 17	15	83.3	628	5	US-10-007-280A-107	Sequence 107, Ap	
c 18	15	83.3	842	5	US-10-027-632-160223	Sequence 160223,	
c 19	15	83.3	842	5	US-10-007-632-160224	Sequence 160224,	
c 20	15	83.3	842	6	US-10-007-632-160223	Sequence 160223,	
c 21	15	83.3	842	6	US-10-027-632-160224	Sequence 160224,	
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c 23	15	83.3	1634	8	US-10-442-599-84619	Sequence 4619, A	

RESULT 1
US-09-925-065A-192589

; Sequence 192589, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108927135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIORITY APPLICATION NUMBER: US 60/243,096
; PRIORITY FILING DATE: 2000-10-24
; PRIORITY APPLICATION NUMBER: US 60/252,147
; PRIORITY FILING DATE: 2000-11-20
; PRIORITY APPLICATION NUMBER: US 60/250,092
; PRIORITY FILING DATE: 2000-11-30
; PRIORITY APPLICATION NUMBER: US 60/261,766
; PRIORITY FILING DATE: 2001-01-16
; PRIORITY APPLICATION NUMBER: US 60/289,846
; PRIORITY FILING DATE: 2001-05-09
; PSEQ ID NO: 192589
; LENGTH: 441
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-192589

Query Match 100.0%; Score 18, DB 4; Length 441;
Best Local Similarity 66.7%; Pred. No. 0.47; Mismatches 0; Indels 0; Gaps 0

Qy 1 AUAAUUAUGGCCUGCGUC 18
| :| :| :| :| :| :| :| :|
Db 318 ATATATTGCGCTGTC 335

RESULT 2
US-09-925-065A-192590

; Sequence 192590, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

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; FILE REFERENCE: 108827.135 ; PRIOR APPLICATION NUMBER: 60/361,974
; CURRENT FILING DATE: 2001-08-08 ; PRIOR FILING DATE: 2002-03-06
; PRIORITY NUMBER: US 60/243,036 ; PRIOR APPLICATION NUMBER: 60/355,477
; PRIORITY NUMBER: US 60/243,036 ; PRIOR FILING DATE: 2002-01-19
; PRIORITY NUMBER: US 60/252,147 ; PRIOR APPLICATION NUMBER: 60/401,661
; PRIORITY NUMBER: US 60/252,147 ; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 82 ; NUMBER OF SEQ ID NOS: 82
; PRIORITY NUMBER: US 60/250,092 ; SOFTWARE: CurseSeqList version 0.1
; PRIORITY NUMBER: US 60/250,092 ; SEQ ID NO: 9
; PRIORITY NUMBER: US 60/250,092 ; LENGTH: 1919
; PRIORITY NUMBER: US 60/250,092 ; TYPE: DNA
; PRIORITY NUMBER: US 60/250,092 ; ORGANISM: Homo sapiens
; PRIORITY NUMBER: US 60/250,092 ; FEATURE:
; PRIORITY NUMBER: US 60/250,092 ; NAME/KEY: CDS
; PRIORITY NUMBER: US 60/250,092 ; LOCATION: (61) . (1959)
; PRIORITY NUMBER: US 60/250,092 ; US-10-382-248-9

Query Match 100.0%; Score 18; DB 7; Length 2019;
Best Local Similarity 66.7%; Pred. No. 0.48%; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 318 ATATTATGGCCCTGTC 335

RESULT 5
US-10-225-567A-121
; Sequence 121, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Glenn P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Rough, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-11-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
SEQ ID NO: 121
LENGTH: 2393
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-225-567A-121

Query Match 100.0%; Score 18; DB 5; Length 2393;
Best Local Similarity 66.7%; Pred. No. 0.48%; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 61 ATAATATGGCCCTGTC 78

RESULT 6
US-10-207-655-64
; Sequence 64, Application US/10207655
; Publication No. US20030118392A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069-401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 64
LENGTH: 2393

RESULT 4
US-10-382-248-9
; Sequence 9, Application US/10382248
; Publication No. US/040058347A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-568C
; CURRENT APPLICATION NUMBER: US/10/382,248
; CURRENT FILING DATE: 2003-03-05
; PRIOR APPLICATION NUMBER: 60/366,928
; PRIOR FILING DATE: 2002-03-22

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TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
FILE REFERENCE: 10827-135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08
PRIORITY FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-01-06
PRIOR APPLICATION NUMBER: US 60/261,766
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FabSEQ For Windows Version 4.0
SEQ ID NO: 328046
LENGTH: 461
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-328046

Query Match 83.3%; Score 15; DB 4; Length 461;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAUUAUGGCCUGCU 17
Db 11 AATTATGCCCTGCT 25

RESULT 12
US-10-172-118-2085/C
Sequence 2085, Application US/10172118
GENERAL INFORMATION:
APPLICANT: Dai, Hongyue
APPLICANT: He, Xudong
APPLICANT: Linsley, Peter
APPLICANT: Mao, Mao
APPLICANT: Roberts, Christopher J.
APPLICANT: Van 't Veer, Laura
APPLICANT: Van de Vijver, Marc J.
APPLICANT: Bernards, René
TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
FILE REFERENCE: 9301-188-939
CURRENT APPLICATION NUMBER: US/10/312,887
CURRENT FILING DATE: 2003-01-15
PRIORITY FILING DATE: 2001-06-18
PRIOR APPLICATION NUMBER: 60/298,918
PRIOR APPLICATION NUMBER: 60/380,710
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: 10/172,118
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 2699
SEQ ID NO: 2085
LENGTH: 507
TYPE: DNA
ORGANISM: Homo sapiens
US-10-342-887-2085

Query Match 83.3%; Score 15; DB 7; Length 507;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AUUUAUGGCCUGCU 17
Db 177 AATTATGCCCTGCT 163

RESULT 14
US-09-925-065A-520324/C
Sequence 520324, Application US/09925065A
GENERAL INFORMATION:
Publication No. US20050228172A9
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
FILE REFERENCE: 108827-135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2000-08-08
PRIORITY FILING DATE: 2000-08-08
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261,766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289,846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FabSEQ for Windows Version 4.0
SEQ ID NO: 520324
LENGTH: 533
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-520324

Query Match 83.3%; Score 15; DB 4; Length 533;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AUUUAUGGCCUGCU 17
Db 368 AATTATGCCCTGCT 354

RESULT 13
US-10-342-887-2085/C
Sequence 2085, Application US/10342887
Publication No. US20040058340A1

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RESULT 15
US-09-925-065A-539398/c
; Sequence 539398, Application US/09925065A
; Publication No. US2005028172A9
; GENERAL INFORMATION:
; APPLICANT: WANG, David G
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 539398
; LENGTH: 544
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-539398

Query Match          83.3%; Score 15; DB 4; Length 544;
Best Local Similarity 66.7%; Prcd. No. 32; Mismatches 0; Indels 0; Gaps 0;
Matches 10; Conservative 5; Missmatches 3
Qy   3 AAUUAUGCCCGUCU 17
Db   368 AATTATGCCCTGCT 354

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word size : 0
total number of hits satisfying chosen parameters: 11766282
minimum DB seq length: 0
maximum DB seq length: 2000000000
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AC137655 Bos tauru
AC068788 Homo sapiens
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AC092330 Homo sapiens
AC063933 Homo sapiens
AC148413 Callithrix jacchus
AC153511 Homo sapiens
AC154087 Alligator mississippiensis
AC153783 Rhinolophus blasii
AC158248 Callithrix jacchus
AC132305 Mus musculus
AC115830 Mus musculus
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AC068605 Mus musculus
AC150699 Bos taurus
AC111356 Rattus norvegicus
AC130987 Rattus norvegicus
AC095169 Rattus norvegicus
AC096706 Sequence
AR511388 Sequence
AX554759 Sequence
CR760514 Xenopus tropicalis
BC011373 Xenopus tropicalis
AB023467 Metrosideros excelsa
PG034210 Homo sapiens
AC166226 Sorex araneus
AC137655 Bos tauru
AC137555 Bos tauru
AC068788 Homo sapiens
AC151504 Babypus niger
AC092330 Homo sapiens
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AC148413 Callithrix jacchus
AC153511 Homo sapiens
AC154087 Alligator mississippiensis
AC153783 Rhinolophus blasii
AC158248 Callithrix jacchus
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AC115830 Mus musculus
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AC068605 Mus musculus
AC150699 Bos taurus
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AC130987 Rattus norvegicus
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AR511388 Sequence
AX554759 Sequence
CR760514 Xenopus tropicalis
BC011373 Xenopus tropicalis
AB023467 Metrosideros excelsa
PG034210 Homo sapiens

RESULT 1

כטבון כטבון

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Match			DB	ID	Description	
		Query	Match	Length				
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3	18	100.0	1734	8	HSEFSRX1	C34260 H.sapiens D		
4	18	100.0	2179	6	AR003719	AR003719 Sequence		
5	18	100.0	2179	6	AR065576	AR065576 Sequence		
6	18	100.0	2179	6	AR207283	AR207283 Sequence		
7	18	100.0	2179	8	S59900	S59900 Follicle st		
8	18	100.0	2186	8	HDMFSHREC	M95489 H.sapiens f		
9	18	100.0	2222	6	A76125	A76125 Sequence 1		
10	18	100.0	2374	6	CQ71054	CQ71054 Sequence		
11	18	100.0	2393	6	AR270646	AR270646 Sequence		
12	18	100.0	2393	6	AX548836	AX548836 Sequence		
13	18	100.0	2393	8	HUMPFHRE	M65085 Human follicle		
c	14	100.0	121688	8	AC09533	AC09533 Homo sapi		
c	15	18	100.0	158709	14	AC033827	AC033827 Homo sapi	
c	16	17	94.4	162	HSEFSRX1	X91758 H.sapiens g		
c	17	88.9	1041	5	AY622135	AY622135 Priotelus		
c	18	88.9	95681	8	AL157890	AL157890 Human DNA		

NEVV"

ORIGIN

Query Match Score 18; DB 8; Length 856;
Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 11 ATAATTATGGCCCTGTC 28

RESULT 2

S73199 S73199 1724 bp DNA linear PRI 28-FEB-1995
LOCUS follicle-stimulating hormone receptor [5' region] [human, Genomic,
DEFINITION 1724 nt].

ACCESSION S73199
VERSION 1
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Bacteria; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE AUTHORS Gromoll,J., Dankbar,B. and Gudermann,T.
TITLE Characterization of the 5' flanking region of the human
follicle-stimulating hormone receptor gene
JOURNAL Mol. Cell. Endocrinol. 102 (1-2), 93-102 (1994)
PUBMED 7926278
REMARK Genbank staff at the National Library of Medicine created this
entry [NCBI gibbsg_15509] from the original journal article.
FEATURES Source
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
gene 1487..1642
CDS /gene="follicle-stimulating hormone receptor, FSHR"
/gene="follicle-stimulating hormone receptor, FSHR"
/note="FSHR"
/codon_start=1
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PRNAEL"

ORIGIN

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Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 1481 ATAATTATGGCCCTGTC 1498

RESULT 3

HSFSHX1 HSFSHX1 1734 bp DNA linear PRI 24-JUL-1995
LOCUS H sapiens DNA for follicle stimulating hormone (FSH) receptor.
DEFINITION H sapiens DNA for follicle stimulating hormone (FSH) receptor.
ACCESSION Z34260
VERSION 1
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Bacteria; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1 (bases 1 to 1734)

AUTHORS Gromoll,J.
JOURNAL Thesis (1994) Institute of Reproductive Medicine, University of
Muenster
REFERENCE 2 (bases 1 to 1734)

AUTHORS Gromoll,J.
TITLE Characterization of the 5'-flanking region of the human follicle
stimulating hormone receptor gene
JOURNAL Unpublished
AUTHORS Gromoll,J.
TITLE Direct Submission
JOURNAL Submitted (01-JUN-1994) Gromoll,J., University of Muenster
Institute of Reproductive Medicine Steinfurter Str. 107 Muenster
Germany 48149
FEATURES Location/Qualifiers
1..1734
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/cell_type="Neukocyte"
/tissue_type="Blood"
/clone_lib="genomic EMBL3"
exon 1487..1647
/product="FSH receptor"
/number=1
inttron 1648..21734
/number=1

ORIGIN

Query Match Score 100.0%; Score 18; DB 8; Length 1734;
Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 1481 ATAATTATGGCCCTGTC 1498

RESULT 4

AR003719 AR003719 2179 bp DNA linear PAT 04-DEC-1998
LOCUS Sequence 1 from patent US 5744448.
DEFINITION Human follicle stimulating hormone receptor
ACCESSION AR003719
KEYWORDS SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 2179)
AUTHORS Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and
Schweickhardt,R.Lynn.
TITLE Human follicle stimulating hormone receptor
JOURNAL Patent: US 5744448-A 1-28-APR-1998;
FEATURES Location/Qualifiers
1..2179
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match Score 100.0%; Score 18; DB 6; Length 2179;
Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGCU 18
Db 69 ATTAATTATGGCCCTGTC 86

RESULT 5

AR067576 AR067576 2179 bp DNA linear PAT 29-SEP-1999
LOCUS Sequence 1 from patent US 5851768.
DEFINITION Homo
ACCESSION AR067576

VERSION	AR067576.1	GI:5998798	JOURNAL	Mol. Cell. Endocrinol.	89 (1-2), 141-151 (1992)
KEYWORDS	Unknown.		PUBLID	1301382	
SOURCE	Unknown.		REMARK	Gentbank staff at the National Library of Medicine created this entry [NCBI gibbsg 13080] from the original journal article.	
ORGANISM	Unclassified.		FEATURES	Location/Qualifiers	
REFERENCE	1 (bases 1 to 2179) Huhtaniemi, I. and Aittomaki, K.		source	1 . 2179	
AUTHORS	de la Chapelle, A., Huhtaniemi, I. and Aittomaki, K.			/organism="Homo sapiens"	
TITLE	Method for diagnosis of ovarian dysgenesis			/mol_type="mRNA"	
JOURNAL	Patent: US 585768-A 1 22-DEC-1998;			/db_xref="taxon:9606"	
FEATURES	Location/Qualifiers			1 . 2179	
source	1 . 2179			/gene="follicle stimulating hormone receptor, FSH receptor"	
ORIGIN	/organism="unknown"			75 . 2162	
	/mol_type="unassigned DNA"			/gene="follicle stimulating hormone receptor, FSH receptor"	
				/note="FSH receptor"	
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Best Local Similarity	66.7%	Pred. No. 5.6;		/product="follicle stimulating hormone receptor"	
Matches	12;	Conservative 6; Mismatches 0;		/protein_id="AAH26460.1"	
Qy	1 AUAAUUAUGCCUGCGUC 18			/db_xref="GI:300073"	
Db	69 ATTAATTATGGCCCTGCTC 86			/translation="WALLYLLSLLAFLSLSGSCHHRICHCSNVRFLCQESEKVTIPSDL	
RESULT 6				PRNAATLRFVLTKLVRVQKAFSGFDLEKLEIISONDVLIEFNSNPKLHEI	
LOCUS	AR207283	2179 bp		ERNSPVGLSPEVSIVLWNLNGQIETHNACAGNTQDQLBNUISDNNNELPLDVFGAS	
DEFINITION	Sequence 1 from patent US 6372711.	DNA		GPVILDISRTRIHSIPLSPSYGLENLKYLARSTYNLKLPTLEKLVAMEASITYPSHCC	
ACCESSION	AR207283	linear		AFANWRRIQISELHPICKNSLILQEVUDMTQGRQSSLAEDNESSYRGPFDMTYPEDD	
VERSION	AR207283.1	PAT 20-JUN-2002		YDLCNEVQDVTCSPKDAFPQCDINGYLNRLVWFLSILATVQIILVVLITLTSQL	
KEYWORDS	GI:21506147			KLTVPREFLMCNLAFAFDLICIGYLJIAAVDHTKSYOHNAYIDWOTGAGCDAAAGFTV	
SOURCE	Unknown.			PASELSVYLTITLLEPRHPTTHANQJDCRVOLRHAASVMMGMWPAFAAALPIFGI	
ORGANISM	Unclassified.			SSYMKVSIQLMIDISPLSQLYVMSLVLNVLAFTVTCGYIHYIYLVRNENIVSSS	
REFERENCE	1 (bases 1 to 2179)			DTRIAKRAMALIFTDFLCMAPISSPAIASIKVPLJUTSKAKLILVLFPHPINSCANPP	
AUTHORS	Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice, and			LYAIFKFNFRDEFFILSKCCYCENQAIQRTETSSVNTNTHPRNGCSSAPRVINGS	
TITLE	Schweickhardt,R.Lynn.			TYILVPLSHLAQN"	
JOURNAL	Methods for assaying human FSH using human FSH receptor				
FEATURES	Methods for assaying human FSH using human FSH receptor				
source	1 . 2179				
ORIGIN	/organism="unknown"				
	/mol_type="unassigned DNA"				
RESULT 7					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
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Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 8					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 9					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 10					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 11					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 12					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 13					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 14					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 15					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 16					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 17					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 18					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 19					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 20					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 21					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 22					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 23					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 24					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 25					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 26					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 27					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 28					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 29					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 30					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 31					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 32					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 33					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 34					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 35					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 36					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 37					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 38					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 39					
Query Match	100.0%	Score 18; DB 6; Length 2179;			
Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	12;	Conservative 6; Mismatches 0;			
Qy	1 AUAAUUAUGCCUGCGUC 18				
Db	69 ATTAATTATGGCCCTGCTC 86				
RESULT 40					
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Best Local Similarity	66.7%	Pred. No. 5.6;			
Matches	1				

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76. .2163								
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ORIGIN								
Query Match	100.0%	Score 18;	DB 6;	Length 2186;				
Best Local Similarity	66.7%	Pred. No. 5.6;						
Matches	12;	Conservative	6;	Mismatches	0;	Indels	0;	Gaps 0;
Qy	1 AUAAUUAUGGCCUCUC 18							
Db	: : : : : : : 79 ATAAATTATGGCCCTGTC 87							
RESULT 9								
A76125	A76125	Sequence 1 from Patent WO9320199.	2222 bp	DNA	linear	PAT 19-OCT-1999		
DEFINITION								
ACCESSION	A76125							
VERSION	A76125.1							
KEYWORDS	GI:6088251							
SOURCE	Homo sapiens (human)							
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.							
REFERENCE	Dijkema, R. and De L. R. HUMAN GONADOTROPIN RECEPTOR							
AUTHORS								
TITLE	Patent: WO 93/0199 A 1-14-OCT-1993;							
JOURNAL	AKZO NV (NL) DIJKEMA REIN (NL)							
FEATURES	Location/Qualifiers							
source	1..2222							
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85..2172								
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ORIGIN								
Query Match	100.0%	Score 18;	DB 6;	Length 2393;				
Best Local Similarity	66.7%	Pred. No. 5.6;						
Matches	12;	Conservative	6;	Mismatches	0;	Indels	0;	Gaps 0;
Qy	1 AUAAUUAUGGCCUCUC 18							
Db	: : : : : : : 62 ATAAATTATGGCCCTGTC 79							
RESULT 10								
CQ715054	CQ715054	Sequence 988 from Patent WO02068579.	2374 bp	DNA	linear	PAT 03-FEB-2004		
DEFINITION								
ACCESSION	CQ715054							
VERSION	CQ715054.1							
KEYWORDS	Human sapiens (human)							
SOURCE	Homo sapiens							
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.							
REFERENCE	Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.							
AUTHORS	Kits, such as nucleic acid arrays, comprising a majority of							
TITLE	humans or transcritps, for detecting expression and other uses							
JOURNAL	thereof							
FEATURES	Patent: WO 02068579-A 988 06-SEP-2002; Source							
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ORIGIN								
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Best Local Similarity	66.7%	Pred. No. 5.6;						
Matches	12;	Conservative	6;	Mismatches	0;	Indels	0;	Gaps 0;
Qy	1 AUAAUUAUGGCCUCUC 18							
Db	: : : : : : : 62 ATAAATTATGGCCCTGTC 79							
RESULT 11								
AR270646	AR270646	Sequence 1209 from patent US 6500938.	2393 bp	DNA	linear	PAT 10-APR-2003		
DEFINITION								
ACCESSION	AR270646							
VERSION	AR270646							
KEYWORDS	Unknown.							
SOURCE	Unclassified.							
ORGANISM	1 (bases 1 to 2393)							
REFERENCE	Au-Young,J. and Seilhamer,J.J.							
AUTHORS	Composition for the detection of signaling pathway gene expression							
TITLE	Patent: US 6500938-A 1209 31-DEC-2002;							
JOURNAL	Incyte Genomics, Inc.; Palo Alto, CA; WO;							
FEATURES	Location/Qualifiers							
source	1..2393							
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61 ATAAATTAGCCCTGTC 78

Db

RESULT 1.2

AX548836 AX548836 2393 bp DNA linear PAT 26-NOV-2002

DEFINITION Sequence 121 from Patent WO02061087.

ACCESSION AX548836

VERSION AX548836.1 GI:25813727

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Hominidae; Homo.

REFERENCE Burmer,G.C., Roush,C.L. and Brown,J.P.

AUTHORS Antigenic peptides such as for G protein-coupled receptors (GPCRs), antibodies thereto, and systems for identifying such antigenic peptides

TITLE Patent: WO 02061087-A 121 08-AUG-2002; Lifespan Biosciences, Inc. (US)

FEATURES Location/Qualifiers

1. .2393

/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="Taxon:2606"

ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 2393;

Best Local Similarity 66.7%; Pred. No. 5.6;

Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUUAUGGCCUGCU C 18
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Db 61 ATAAATTAGCCCTGTC 78

RESULT 1.4

AC092533/c AC092533 121688 bp DNA linear PRI 15-APR-2005

LOCUS Homo sapiens BAC clone RP1-57I10

DEFINITION from 2, complete sequence.

ACCESSION AC092533 AC027148

VERSION AC092533.1 GI:1478373

KEYWORDS HTG.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 121688)

AUTHORS Haakenson,W. and Shah,N.

TITLE The sequence of Homo sapiens BAC clone RP1-57I10

JOURNAL Unpublished (2001)

REFERENCE 2 (bases 1 to 121688)

AUTHORS Waterston,R.H.

TITLE Direct Submission

JOURNAL Submitted (14-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 3 (bases 1 to 121688)

AUTHORS Waterston,R.H.

TITLE Direct Submission

JOURNAL Submitted (25-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 4 (bases 1 to 121688)

AUTHORS Waterston,R.H.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-2002) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

REFERENCE 5 (bases 1 to 121688)

AUTHORS Wilson,R.K.

TITLE Direct Submission

JOURNAL Submitted (15-APR-2005) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

COMMENT On Jul 14, 2001 this sequence version replaced gi:7622375.

----- Gene Center

Center: Washington University Genome Sequencing Center

Center code: WUGSC

Web site: <http://genome.wustl.edu>

Contact: submissions@atson.wustl.edu

----- Summary Statistics

RESULT 1.3

HUMFSHRE HUMFSHRE 2393 bp mRNA linear PRI 12-JAN-2005

DEFINITION Human follicle stimulating hormone receptor mRNA, complete cds.

ACCESSION M65085

VERSION M65085.1 GI:182770

KEYWORDS Follicle stimulating hormone (FSH) receptor.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2393)

AUTHORS Minegishi,T., Nakamura,K., Takakura,Y., Igarashi,M. and Minegishi,T.

JOURNAL Cloning and sequencing of human FSH receptor cDNA

PUBMED Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)

COMMENT Original source text: Human, cDNA to mRNA.

FEATURES Location/Qualifiers

1. .2393

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gene

67. .2393

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CDS

FEATURES

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Search completed: November 29, 2005, 23:42:25
Job time : 895.5 secs

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Copyright	GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.	
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Scoring table:	OLIGO-NUC	
Gapop:	60.0 , Gapext: 60.0	
Number of hits satisfying chosen parameters:	4996997 seqs, 3332346308 residues	9993994
Searched:	0	
Barcode size :		
Total number of hits satisfying chosen parameters:		
DB seq length:	0	
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Maximum DB seq length:	0	
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Abd333268 Human can	c 21	15 83.3 180227 13 ABD333268
Acn44504 Mouse gen	c 22	15 83.3 202251 11 ACN44504
AbB67475 Rice geno	c 23	14 77.8 400 14 ABB67475
Adt97777 Colon can	c 24	14 77.8 574 11 ADT97777
Adx4259 Human CDN	c 25	14 77.8 574 11 ADX4259
Aca16201 Prokaryot	c 26	14 77.8 810 8 ACA16201
Abd01221 Klebsiell	c 27	14 77.8 900 11 ABD01221
Adt45042 Bacterial	c 28	14 77.8 975 13 ADT45042
Aah5707 C Glutami	c 29	14 77.8 1059 5 AAH5707
Aaf67932 Corynebac	c 30	14 77.8 1149 4 AAF67932
Adt62987 Murine HS	c 31	14 77.8 1200 14 ADT62987
Adg59283 Bacterial	c 32	14 77.8 1254 13 ADG59283
Adt48503 Bacterial	c 33	14 77.8 1506 13 ADS48503
Aab93640 DNA encod	c 34	14 77.8 1617 5 AAB93640
Aai58166 Human pol	c 35	14 77.8 1887 4 AAIS8166
Adg98372 DNA encod	c 36	14 77.8 1887 5 ADG98372
Adb18132 Novel hum	c 37	14 77.8 1887 9 ADB18132
Adg47940 Bacterial	c 38	14 77.8 1887 13 ADG47940
Aah17958 Human CDN	c 39	14 77.8 1903 4 AAH17958
Adb68874 C. neofor	c 40	14 77.8 2450 10 ADB68874
Aad29106 Human MDM	c 41	14 77.8 2975 6AAD29106
Aaq53996 Equine he	c 42	14 77.8 3678 2 AAQ53996
Aax8299 Equine he	c 43	14 77.8 3678 2 AAX8299
Ach9131 Klebsiell	c 45	14 77.8 3762 11 ACH9131
Aat18484 Rat Petri	c 46	14 77.8 4262 2 AAT18484

ALIGNMENTS

RESULT 1						
	ID	AAC90409 standard; RNA; 18 BP.				
1: geneseqm1960s:*						
2: geneseqm1990s:*						
3: geneseqn2000s:*						
4: geneseqn2001as:*						
5: geneseqn2001bs:*						
6: geneseqn2002as:*						
7: geneseqn2002bs:*						
8: geneseqn2003as:*						
9: geneseqn2003bs:*						
10: geneseqn2004cs:*						
11: geneseqn2004ds:*						
12: geneseqn2004as:*						
13: geneseqn2004bs:*						
14: geneseqn2005s:*						
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.						
SUMMARIES						
Result No.	Score	Query Match	Length	DB ID	Description	
1	18	100.0	18	4	AAC90409 Human FSH	
2	18	100.0	18	4	AAC90408 Human FSH	
3	18	100.0	1922	11	ADP0559 Human GPC	
4	18	100.0	2019	10	ADC24202 Human NOV	
5	18	100.0	2179	2	AAT63181 FSH receptor	
6	18	100.0	2180	2	AAQ29377 FSHR DNA	
7	18	100.0	2222	2	AAQ5013 FSH receptor	
8	18	100.0	2393	8	ABZ42655 Human foll	
9	18	100.0	2393	10	ADD25053 Binding d	
10	18	100.0	2393	10	ACAS5611 Human sig	
11	18	100.0	2393	12	ADI5407 Human pol	
12	18	100.0	2393	12	ADQ2879 Human GPC	
c	13	15	83.3	507	ADT26224 Breast Ca	PS
c	14	15	83.3	612	ABT03390 Ovary cel	XX
c	15	15	83.3	628	ABT03391 Ovary cel	CC
c	16	15	83.3	2021	ADT19293 Plant cDN	CC
c	17	15	83.3	13	ABL12007 Drosophil	CC
c	18	15	83.3	3659	ADR84405 Aspergill	CC
c	19	15	83.3	2853	ADR84405 Drosophil	CC
c	20	15	83.3	914	ATL12006	CC

CC composition is also useful for regulating fertility and menstrual cycle.
 CC In addition, the composition is useful as a chemopreventive or
 CC chemotherapy for cancers (e.g. breast, bladder, cervix, lung, liver,
 CC ovary, colon, stomach, or especially ovarian cancers), gestational
 XX trophoblastic tumours or testicular germ cell tumours

SQ Sequence 18 BP; 4 A; 5 C; 3 G; 0 T; 6 U; 0 Other;
 Query Match 100.0%; Score 18; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 18 ATAATATTGGCCCTGCTC 1

RESULT 3
 ADP03559 standard; DNA; 1922 BP.
 XX ID ADP03559
 DE Human GPCR follicle stimulating hormone receptor variant "Gene 4" DNA.
 XX AC ADP03559;
 XX DT 29-JUL-2004 (first entry)
 XX GPCR; G-protein coupled receptor; neuroprotective; nootropic;
 KW tranquiliser; antihistamine; neuroleptic; anticonvulsant; antidepressant;
 KW antiarrhythmic; anti-HIV; antiasthmatic; cardiotonic; hypotensive;
 KW analgesic; anorectic; anti-HIV; anti-HBV; antiangiinal; osteopathic;
 KW uropathic; antiallergic; antiallergic; antihistaminic; cyclosporine; cell cycle regulation; neurological;
 KW severe mental retardation; dyskinetic; spinal cord; affective;
 KW neoplastic; cardiovascular; immunological; immune endocrinian; growth;
 KW eating; HIV infection; cancer; metabolic; pituitary; gene therapy; human; ds; gene;
 KW chromosome identification; gene therapy; human; ds; gene;
 KW follicle stimulating hormone; FSH receptor variant.
 XX Homo sapiens.
 OS Location/Qualifiers
 XX Key 17. .1753
 FT /*tag= a
 FT /product= "Human GPCR follicle stimulating hormone
 FT receptor variant 'Gene 4' protein"
 XX WO2003062393-A2.
 XX Key
 XX CDS 17. .1753
 XX FT /*tag= a
 XX FT /product= "Human GPCR follicle stimulating hormone
 XX receptor variant 'Gene 4' protein"
 XX PN WO2003062393-A2.
 XX PR 31-JUL-2003.
 XX PD 22-JAN-2003; 2003WO-US001911.
 XX PR 22-JAN-2002; 2002US-0350724P.
 XX PA (BRIM) BRISTOL-MYERS SQUIBB CO.
 XX PI Ramanathan CS, Gopal S, Mintier G, Feder JN;
 XX DR WPI: 2003-618283/58.
 XX DR P-PSDB; ADP03510.
 XX PT New nucleic acid molecule encoding a human G-protein coupled receptor,
 PT useful for diagnosing, preventing or treating diseases involving the
 PT receptor, e.g. Parkinson's disease, dementia, asthma, hypertension or
 PT cancer.
 XX PS Claim 1; SEQ ID NO 4; 244pp; English.
 XX The present invention relates to a novel isolated GPCR (G-protein coupled
 CC one antisense oligonucleotide and polypeptide of
 CC receptor) nucleic acid molecule. The polynucleotide and polypeptide of
 CC the invention demonstrate neuroprotective, nootropic, tranquiliser,
 CC antiin migraine, neuroleptic, anticonvulsant, anticonvulsant,
 CC anti-HIV, antiarrhythmic, cardiotonic, hypotensive, antiangiinal,
 CC analgesic, anorectic, anti-HIV, antiasthmatic, osteopathic, uropathic,
 CC antiallergic and antiallergic properties. The nucleic acid molecule and
 CC polypeptide of the invention may be useful in diagnosing, preventing,
 CC treating or ameliorating a medical condition, such as a disorder related
 CC to aberrant G-protein coupled signalling, a disorder related to aberrant
 CC cell cycle regulation, neurological disorders, severe mental retardation
 CC and dyskinesias, brain disorders, spinal cord disorders, affective
 CC disorders, neoplastic disorders, cardiovascular disorders, immunological
 CC disorders, immune-related disorders, endocrinian diseases, growth
 CC disorders, eating disorders, HIV infection, cancers, metabolic disorders
 CC and pituitary disorders. Furthermore, the polynucleotide may be used in
 CC chromosome identification, in identifying organisms from minute
 CC biological samples, in gene therapy or as a molecular weight marker. The
 CC current sequence is that of a human GPCR (G-protein coupled receptor) DNA

Query Match 100.0%; Score 18; DB 4; Length 18;
 Best Local Similarity 66.7%; Pred. No. 1.2;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAAUUAUGGCCUGUC 18
 1 :| :| :| :| :| :| :| :

CC which was isolated by the method of the invention.

XX Sequence 1922 BP; 499 A; 504 C; 387 G; 532 T; 0 U; 0 Other;

SQ Query Match 100.0%; Score 18; DB 11; Length 1922;

Best Local Similarity 66.7%; Pred. No. 1.3; Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Ov 1 AUAAUAUAGGCCUGCUC 18
| :| :| :| :| :| :| :| :|
Db 11 ATTTATGGCCCTGCTC 28

RESULT 4

ADC24202 Standard; cDNA; 2019 BP.

XX ADC24202;

XX 18-DBC-2003 (first entry)

DE Human NOV3a encoding cDNA SEQ ID NO:9.

XX human; cardiac; antiarteriosclerotic; hypotensive; vasotropic;

XX dermatological; anorectic; immunosuppressive; cytostatic; antiinflammatory;

XX neuroprotective; anabolic; nortropic; antiparkinsonian; gene therapy;

XX cardiology; atherosclerosis; hypertension; congenital heart defect;

XX pulmonary stenosis; scleroaroma; obesity; metabolic disturbance; hyperplasia;

XX transplantation; adrenoleukodystrophy; congenital adrenal hyperplasia;

XX prostate cancer; diabetes; metabolic disorder; neoplasm; adenocarcinoma;

XX bronchial asthma; Crohn's disease; graft versus host disease; AIDS;

XX infectious disease; anorexia; neurodegenerative disorder;

XX haematoxic; Parkinson's disease; immune disorder;

XX haematoxic; haemophilia; graft versus host disease; AIDS;

XX haematoxic disorder; dyslipidaemia; wasting disorder; gene; BB.

OS Homo sapiens.

XX Key Location/Qualifiers
FH 61..1962
FT /*tag= a
FT /product= "NOV3a"

XN WO2003076584-A2.

XX 18-SEP-2003.

XX 06-MAR-2003; 2003WO-US006951.

XX PR 06-MAR-2002; 2002US-0361974P.

PR 19-MAR-2002; 2002US-0365477P.

PR 22-MAR-2002; 2002US-0366928P.

PR 06-AUG-2002; 2002US-0401661P.

PR 05-MAR-2003; 2003US-00401651.

XX PA (CURAGEN CORP.

XX PR Alsobrook JP, Burgess CE, Edinger SR, Gerlach VL, Ji W, Kekuda R;
PR Li L, Macdonald JR, Miller CE, Millet I, Paturajan M, Pena CEA;
PR Rieger DK, Sciore P, Shenoy SG, Smithson G, Spytek KA, Stone DJ;
PR Voss EZ, Zhong M;

XX DR WPI; 2003-722230/68.

XX P-PSDB; ADC24203.

XX New NOVX polypeptides and nucleic acids, useful for diagnosing or
treating e.g. cardiomopathy, atherosclerosis, hypertension, scleroderma,
obesity, prostate cancer, AIDS, bronchial asthma, Crohn's disease, or
multiple sclerosis.

XX Claim 20; SEQ ID NO 9; 229pp; English.

CC The present invention describes novel human proteins, designated NOVX
CC proteins. The NOVX sequences have cardiac, antiarteriosclerotic,
CC hypotensive, antiinfertility haemostatic, anti-HIV, antiarctic, immunosuppressive,
CC cytoprotective, neuroprotective, anabolic, nootropic and
CC antiinflammatory, neuroprotective, anabolic, nootropic and
CC antiparkinsonian activities, and can be used in gene therapy. The NOVX
CC sequences can be used as a therapeutic in the manufacture of a medicament
CC for treating a syndrome associated with a human disease, such as a
CC pathology associated with NOVX. The NOVX proteins and nucleic acids
CC encoding them are useful for diagnosing or treating pathologies, diseases
CC or conditions associated with NOVX sequences, including cardiomyopathy,
CC atherosclerosis, hypertension, congenital heart defects, pulmonary
CC stenosis, scleroderma, obesity, metabolic disturbances associated with
CC obesity, transplantation, adrenoleukodystrophy, congenital adrenal
CC hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm,
CC adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,
CC bronchial asthma, Crohn's disease, multiple sclerosis, infectious
CC disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease,
CC or Parkinson's disease), immune disorders, hematopoietic disorders,
CC dyslipidaemia, and wasting disorders associated with chronic diseases.
CC The proteins can also be used as immunogens to produce antibodies and as
CC vaccines. The sequences may further be used in chromosome mapping,
CC identifying individual from minute biological samples (tissue typing),
CC and in forensic identification of a biological sample. The present
CC sequence encodes human NOV3a from the present invention.

XX Sequence 2019 BP; 527 A; 514 C; 411 G; 567 T; 0 U; 0 Other;

XX SQ Query Match 100.0%; Score 18; DB 10; Length 2019;
XX Best Local Similarity 66.7%; Pred. No. 1.3;
XX Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

XX Ov 1 AUDAUUAGGCCUGCUC 18
| :| :| :| :| :| :| :| :|
XX Db 55 ATATTATGGCCCTGGCTC 72

RESULT 5
AAT63181
ID AAT63181 standard; DNA: 2179 BP.
XX AAT63181;
AC AC
XX DT 20-JUN-1997 (first entry)
XX DE FSH receptor gene wild-type allele.
XX KW Follicle stimulating hormone receptor; FSH receptor; ovarian dysgenesis;
KW hypergonadotropic hypogonadism; diagnosis; BB.
XX OS Homo sapiens.
XX FT CDS
FT exon
FT /tag= C
FT /note= "nucleotides 70-227 correspond to nucleotides 1-
77 of fshr exon 2"
FT exon
FT /tag= C
FT /note= "nucleotides 158 of fshr exon 1"
FT exon
FT /tag= C
FT /note= "nucleotides 299-373 correspond to nucleotides 6-
228..450
FT exon
FT /tag= C
FT /note= "nucleotides 80 of fshr exon 3"
FT exon
FT /tag= C
FT /note= "nucleotides 374-450 correspond to nucleotides 6-
82 of fshr exon 4"
FT exon
FT /tag= C
FT /note= "nucleotides 451..520
FT exon
FT /tag= C

FT /note= "nucleotides 451-520 correspond to nucleotides 8-
77 of fshr exon 5"
FT 521. .598
FT /*tag= C
FT /note= "nucleotides 521. .598 correspond to nucleotides 6-
93 of fshr exon 6"
FT 599. .668
FT /*tag= C
FT /note= "nucleotides 599-668 correspond to nucleotides 6-
75 of fshr exon 7"
FT 640
FT /*tag= b
FT /note= "a C to T mutation in codon 189 correlates with
ovarian dysgenesis"
FT 669. .742
FT /*tag= C
FT /note= "nucleotides 669-742 correspond to nucleotides 7-
80 of fshr exon 8"
FT 743. .928
FT /*tag= C
FT /note= "nucleotides 743-928 correspond to nucleotides 6-
191 of fshr exon 9"
FT 929. .2179
FT /*tag= C
FT /note= "nucleotides 929-2179 correspond to nucleotides
102-1352 of fshr exon 10"
XX WO9711194-A1.
PN PR 20-SEP-1996; 96WO-FI000501.
XX PR 20-SEP-1995; 95US-00531070.
PA PA (UYHE-) UNIV HELSINKI LICENSING LTD OY.
XX PI De La Chapelle A, Aittomaki K, Huhtaniemi I;
XX DR WPI; 1997-202900/18.
DR P-PSDB; AAN14782.
XX PT Diagnosis of ovarian dysgenesis and carriers from DNA abnormalities - by
amplifying DNA from follicle stimulating hormone receptor allele(s),
PT PT i.e. codon 189, cleaving fragments, and examination.
XX PS Claim 17; Page 18-21; 43PP; English.
XX CC A DNA sequence (AT63181) comprises the coding region from exons 1-10 of
the wild-type fshr gene that codes for human follicle stimulating hormone
CC (FSH) receptor (AAW14782). A C to T mutation in exon 7 (codon 189) is
CC associated with ovarian dysgenesis. In a method for determining a FSH
CC receptor genotype in a human patient, fahr exon 7, or a portion of it, is
CC isolated by PCR amplification (see also AAT63195-96) and exposed to BsmI.
CC Exon 7 contains a unique BsmI site which, if mutated, will produce no
CC BsmI digestion products, thereby enabling diagnosis of ovarian dysgenesis
XX SQ Sequence 2179 BP; 575 A; 561 C; 444 G; 599 T; 0 U; 0 Other;
Query Match 100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
RESULT 7
Qy 1 AUAAUTAUGGCCUCUC 18
ID :||:||:||:||:||:||:
Db 69 ATTAATTATGCCCTGTC 86
AC AAQ29377
XX DT 25-MAR-2003 (revised)
ID AAQ50013 standard; cDNA to mRNA; 2222 BP.
XX DT 05-MAY-1994 (first entry)
AC FSH receptor.

FSH; receptor; follicle stimulating hormone; GST;
 KW glutamine-S-transferase; primer; PCR; amplification;
 KW polymerase chain reaction; probe; antibody; overstimulation; ds.
 XX

OS Homo sapiens.

Key Location/Qualifiers
 85 . 2172
 /*tag= a
 product= "FSH_receptor"
 136 . 151
 /*tag= b
 note= "first primer for GST-FSH-R1 and for GST-FSH-R2"
 763 . 776
 /*tag= d
 note= "primer for GST-FSH-R3"
 complement(770 . 787)
 /*tag= f
 note= "primer for GST-FSH-R2"
 complement(1167 . 1183)
 /*tag= e
 note= "primer for GST-FSH-R1 and for GST-FSH-R3"
 1168 . 1183
 /*tag= C
 note= "primer for GST-FSH-R3"
 XX

WO9320199-A1.

PN WPI; 1993-336007/42.
 XX 14-OCT-1993.
 XX 29-MAR-1993; 93WO-EP000780.
 PR 30-MAR-1992; 92EPD-00-00886.
 XX (ALKU) AKZO NV.
 XX Dijkema R, De Leeuw R;
 PI WPI; 1993-336007/42.
 DR P-PSDB; AAR42082.
 XX New follicle stimulating hormone receptor - and derived antibodies, anti-
 idiotypic antibodies, and transfected cells, useful e.g. in diagnosis and
 as antitode for FSH overstimulation.
 XX Disclosure: Page 20-23; 42pp; English.
 PS The primers given in AAQ50029-34 were used in the cloning of GST-FSH- R1,
 CC GST-FSH-R2 and GST-FSH-R3 fusion protein constructs. Screening of the
 CC human testis cDNA library with a hFSH-R specific probe resulted in five
 CC recombinant phages positive in hybridisation. Sequence analysis was
 CC performed of the 2222 bp fragment of pGEM3zC1 (AAQ50013). (Updated on 25-
 MAR 2003 to correct PN field.)
 XX Sequence 2222 BP; 598 A; 565 C; 453 G; 606 T; 0 U; 0 Other;
 SQ Query Match 100.0%; Score 18; DB 2; Length 2222;
 Best Local Similarity 66.7%; Pred. No. 1.3;
 Matches 12; Conservative 6; Mismatches 0; Gaps 0;
 Indels 0; Gaps 0;
 QY 1 AUAUAUAGGCCUGCCUC 18
 79 ATAATTAAGCCGCGTC 96
 DB

Human follicle stimulating hormone receptor nucleotide SEQ ID NO:121.
 DE XX G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;
 KW G protein-coupled receptor modulator; antibody; immune-related disease;
 KW growth-related disease; cell regeneration-related disease; AIDS; cancer;
 KW immunological-related cell proliferative disease; autoimmune disease;
 KW Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;
 KW osteoporosis; cardiology; inflammation; Crohn's disease; diabetes;
 KW graft versus host disease; Parkinson's disease; multiple sclerosis; pain;
 KW porcine; anxiety; depression; schizophrenia; dementia; memory loss;
 KW mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;
 KW hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;
 KW ulcer; gene; ds.
 XX Homo sapiens.
 OS XX WO200261087-A2.
 PN XX 08-AUG-2002.
 PD XX 19-DEC-2001; 2001WO-US050107.
 PF XX 19-DEC-2000; 2000US-0257144P.
 PA XX (LIFE-) LIFESPAN BIOSCIENCES INC.
 PI XX Burner GC, Roush CL, Brown JP;
 DR XX WPI; 2003-046718/04.
 DR XX P-PSDB; ABP81819.
 PT XX New isolated antigenic peptides e.g., for G protein-coupled receptors
 PT (GPCR), useful for diagnosing and designing drugs for treating conditions
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
 PT autoimmune diseases.
 XX Disclosure; Fig 1; 523pp; English.
 PS XX The present invention describes antigenic peptides (I) comprising: (a)
 CC any one of 1601 sequences (see ABP8209 to ABP83619) of 12-24 amino
 CC acids. Also described: (1) an assay for the detection of a particular G
 CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;
 CC and (2) an isolated antibody having high specificity and high affinity or
 CC avidity for a particular GPCR. (I) can be used as GPCR modulators and in
 CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
 CC antibody against a particular GPCR, and in the production of specific
 CC antibodies. The peptides and antibodies are also useful for detecting the
 CC presence or absence of corresponding GPCRs. The antigenic peptides for
 CC GPCRs and antibodies are useful for diagnosing and designing drugs for
 CC treating immune-related diseases, growth-related diseases, cell
 CC regeneration-related disease, immunological-related cell proliferative
 CC disease, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
 CC atherosclerosis, bacterial, fungal, protozoal or viral infections,
 CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute
 CC disease, Parkinson's disease, multiple sclerosis, graft versus host
 CC disease, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,
 CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or
 CC any other disorder in which GPCRs are involved. The antibodies may be
 CC used in immunoassays and immunodiagnostics. AB24523 to AB242869 encode
 CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
 CC exemplification of the present invention
 XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ Query Match 100.0%; Score 18; DB 8; Length 2393;
 Best Local Similarity 66.7%; Pred. No. 1.3;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AUAUAUAGGCCUGCCUC 18
 79 ATAATTAAGCCGCGTC 96
 DB 61 ATATTATGGCCGTC 18

RESULT 9

ADD25503 Standard; DNA; 2393 BP.
 XX
 AC
 XX
 DT 15-JAN-2004 (First entry)
 DE Binding domain-immunoglobulin fusion protein-associated DNA #36.
 XX
 KW ds; Binding domain; immunoglobulin; fusion protein; cytosatic;
 KW antiarachitic; immunosuppressive; anidiobiotic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1; IgG3;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 PF 25-JUL-2002; 2002US-00207655.
 XX
 PR 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053330.
 PR 03-JUN-2002; 2002US-0385693P.
 XX
 PA GENECRAFT INC.
 XX
 PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 XX
 DR WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX
 PS Disclosure; SEQ ID NO 64; 157pp; English.
 XX
 CC Unidentified.
 XX
 SQ Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ Score 18; DB 10; Length 2393;
 Query Match 100.0%; Pred. No. 1.3;
 Best Local Similarity 66.7%;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 AUAUAUUGGCGCCUCUC 18
 Db 61 ATAATTAATGGCCCTGCTC 78
 RESULT 10
 ADI56403 Standard; DNA; 2393 BP.
 XX
 AC ACA56611
 XX
 DT 06-JUN-2003 (first entry)
 DE Human signalling pathway polynucleotide probe SEQ ID NO 1209.
 XX
 KW Human; probe; ss; array element; Parkinson's disease;
 KW signalling pathway population; cancer; adenocarcinoma; leukaemia;
 KW immunopathy; AIDS; asthma; neuropathy; Alzheimer's disease; microarray.
 XX
 OS Homo sapiens.

XX
 PN US6500938-B1.
 XX
 PD 31-DEC-2002.
 XX
 PP 30-JAN-1998; 98US-00016434.
 XX
 PR 30-JAN-1998; 98US-00016434.
 XX
 PA (INCY-) INCYTE GENOMICS INC.
 XX
 PI Au-Young J, Seilhamer JJ;
 XX
 DR WPI; 2003-352189/33.
 XX
 PT Combination of polynucleotide probes, useful as array elements in a
 PT microarray for monitoring the expression of a number of target
 PT polynucleotides.
 XX
 PS Claim 1; SEQ ID NO 1209; 65pp; English.
 XX
 CC The invention relates to a combination which, comprises a number of
 CC polynucleotide probes comprising a sequence selected from one of the 1490
 CC sequences mentioned in the specification. The combination is useful as an
 CC array element in a microarray for monitoring the expression of a number
 CC of target polynucleotides. The microarray is particularly useful in the
 CC diagnosis and treatment of cancer and immunopathology and neuropathology.
 CC The microarray is useful in diagnostics and treatment regimens, drug
 CC discovery and development, toxicological and carcinogenicity studies,
 CC forensics and pharmacogenomics. The microarray is also useful for
 CC monitoring progression of diseases and for developing sophisticated
 CC profiles for the effects of currently available therapeutic drugs. The
 CC combination is also useful for purifying a subpopulation of mRNAs, cDNAs
 CC and genomic fragments and in research and diagnostic applications. The
 CC array can detect changes in expression in a large number of genes coding
 CC for different signalling pathway populations which can be used to diagnose
 CC various diseases including cancer e.g. adenocarcinoma and leukaemia,
 CC immunopathies e.g. AIDS and asthma, neuropathies e.g. Alzheimer's disease
 CC and Parkinson's disease. The present sequence represents a polynucleotide
 CC probe of the invention. Note: The sequence data for this patent did not
 CC form part of the printed specification but was obtained in electronic
 CC format directly from USPTO at
 CC seqdta.uspto.gov/Sequence.html?DocID=06500036B1
 XX
 SQ Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 XX
 Query Match 100.0%; Score 18; DB 10; Length 2393;
 Best Local Similarity 66.7%;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 AUAAUUAUGGCCUCUC 18
 Db 61 ATAATTAATGGCCCTGCTC 78
 RESULT 11
 ADI56407 Human polynucleotide probe #1209.
 XX
 AC ADI56407;
 XX
 DT 22-APR-2004 (first entry)
 DE Human polynucleotide probe #1209.
 XX
 KW Human; probe; ss; receptor-like polypeptide; transducing polypeptide;
 KW effector-like polypeptide; cancer; immunopathology; neuropathology;
 KW drug development; toxicology; carcinogenicity;
 KW signalling pathway polypeptide; adrenal gland; bladder; bone;
 KW bone marrow; brain; breast; cervix; tumour; immunopathology; AIDS;
 KW diabetes; panreatitis; osteoporosis; ulcerative colitis; neuropathology;
 KW dementia; amnesia; epilepsy; Alzheimer's disease; depression.
 XX

OS Homo sapiens.
 PN US2004010136-A1.
 XX 15-JAN-2004.
 PD 26-NOV-2002; 2002US-00305720.
 XX 30-JAN-1998; 9B0US-00016434.
 PR (INCY-) INCYTE GENOMICS INC.
 XX Au-Young J, Seilhamer JJ;
 PI DR WPI; 2004-090520/09.
 XX PT New composition comprising polynucleotide probes, useful as array elements in a microarray for monitoring the expression of target polynucleotides or purifying a subpopulation of mRNAs, cDNA, or genomic fragments.
 PS Claim 6; SEQ ID NO 1209; 73pp; English.
 XX The invention relates to a composition of polynucleotide probes comprising first polynucleotide probes comprising at least a portion of a gene encoding a receptor-like polypeptide, second polynucleotide probes comprising at least a portion of a gene encoding a transaucing polypeptide and third polynucleotide probes comprising at least a portion of a gene encoding an effector-like polypeptide. The probes of the composition are useful as array elements in a microarray for monitoring the expression of target polynucleotides. The microarray is useful in the diagnosis and treatment of cancer, an immunopathology or a neuropathology. It can also be used for drug discovery and development, toxicological and carcinogenicity studies, forensics or pharmacogenomics. Microarrays can also be used for monitoring the progression of diseases that may be associated with the altered expression of signalling pathway polypeptides. The composition can also be used to purify a subpopulation of mRNAs, cDNAs, or genomic fragments in a sample. The expression profile is also useful for the diagnosis and treatment of cancer, e.g. cancers of the adrenal gland, bladder, bone, bone marrow, brain, breast or cervix, an immunopathology, e.g. AIDS, diabetes, pancreatitis, osteoporosis or ulcerative colitis, or a neuropathology, e.g. dementia, amnesia, epilepsy, Alzheimer's disease or depression. This sequence represents a human polynucleotide probe of the invention. Note: The sequence for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html.

XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other; Score 18; DB 12; Length 2393; Best Local Similarity 66.7%; Pred. No. 1.3; Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Query 1 AUAUATTAUGGCCGUCUC 18
 :|:||:|:||:||:||:|:
 61 ATAAATTAGCCCTCTC 78

Result 12
 AD029879 standard; CDNA; 2393 BP.
 XX AD029879;
 DT 29-JUL-2004 (first entry)
 DE Human GPCR FSHR polynucleotide, SEQ ID NO:981.
 KW G protein-coupled receptor; GPCR; drug screening; diagnosis;
 KW transgenic mouse; neurological disorder; adrenal gland disorder;
 KW colon disorder; intestinal disorder; cardiovascular disorder;
 KW muscular disorder; blood disorder; immune disorder; bone disorder;

Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gappb 0;

Qy 1 AUAUAUAGGCCUGCU 18
| : | : | : | : | : | : |
Db 61 ATTAATTGGCCCTGCtC 78

DE Ovary cell-specific DNA sequence 106.
XX Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovarian specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX Homo sapiens.

RESULT 13
ADR26224/C
ID ADR26224 Standard; DNA; 507 BP.
XX
AC ADR26224;
XX DT 21-OCT-2004 (first entry)
XX DE Breast cancer prognosis marker #2085.
XX ds; breast cancer; prognosis; gene expression; diagnosis.
XX OS Homo sapiens.
XX WO2004065545-A2.
XX PR 05-AUG-2004.
XX PF 15-JAN-2004; 2004WO-US001100.
XX PR 15-JAN-2003; 2003US-00342187.
XX PA (ROSE-) ROSETTA INPHARMATICS LLC.
PA NETHERLANDS CANCER INST.
XX PI Van't Veer LJ, He Y;
XX DR WPI; 2004-593473/57.
XX PT Classifying a breast cancer patient according to prognosis comprises
PT determining the similarity between the level of expression of each of
PT five genes in a cell sample taken from patient, to control levels.
XX Disclosure; SEQ ID NO 2085; 226PP; English.
PS CC The invention relates to a method of classifying a breast cancer patient
CC according to prognosis by determining the similarity between the level of
CC expression of each of five genes for which markers are listed in the
CC specification, in a cell sample taken from the breast cancer patient, to
CC control levels of expression for each respective five genes to obtain a
CC patient similarity value. The methods are useful for classifying a breast
CC cancer patient according to prognosis. Kits and computer program products
CC are useful for data analysis using the diagnostic, prognostic and
CC statistical methods of the invention. This sequence corresponds to a
CC marker used in the method of the invention.
XX SQ Sequence 507 BP; 151 A; 103 C; 90 G; 163 T; 0 U; 0 Other;
XX Query Match 83.3%; Score 15; DB 13; Length 507;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gappb 0;

Qy 3 AAUUAUGGCCUGCU 17
| : | : | : | : | : | : |
Db 177 ATTATGGCCCTGCtC 163

DE Ovary cell-specific DNA sequence 107.
XX Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovarian specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX Homo sapiens.

RESULT 14
ABT03390
ID ABT03390 Standard; DNA; 612 BP.
XX AC ABT03390;
XX DT 28-NOV-2002 (first entry)

DE Ovary cell-specific DNA sequence 106.
XX Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovarian specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX Homo sapiens.

RESULT 15
ABT03391
ID ABT03391 Standard; DNA; 628 BP.
XX AC ABT03391;
XX DT 28-NOV-2002 (first entry)

DE Ovary cell-specific DNA sequence 107.
XX Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovarian specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX Homo sapiens.

RESULT 16
ABT03390
ID ABT03390 Standard; DNA; 612 BP.
XX AC ABT03390;
XX DT 08-NOV-2000; 2000US-0246640P.
XX PR 08-NOV-2000; 2000US-0246640P.

PA (DIAD-) DIADEXUS INC.
 XX
 PI Sun Y, Recipon H, Salceda S, Liu C;
 XX WPI; 2002-519397/55.
 XX
 PR Polypeptide and polynucleotides present in normal and neoplastic ovary
 PR cells, useful for identifying, monitoring, staging, diagnosing,
 PR preventing and treating ovarian cancer, and non-cancerous disease states
 PR in the ovary.
 XX
 PS Claim 1; Page 192-193; 247pp; English.
 XX
 CC The invention comprises amino acid and DNA sequences which are present in
 CC normal and neoplastic ovary cells. The DNA and protein sequences of the
 CC invention are useful for determining the presence of an ovary specific
 CC nucleic acid or an ovary specific protein in a sample. The DNA and
 CC protein sequences of the invention are useful for diagnosing and
 CC monitoring the presence and metastasis of ovarian cancer and breast
 CC cancer. Nucleotides ABT03285 - ABT03421 represents the ovary cell
 CC specific DNA sequences of the invention
 XX
 SQ Sequence 628 BP; 202 A; 115 C; 102 G; 209 T; 0 U; 0 Other;
 XX
 Query Match 83.3%; Score 15; DB 6; Length 628;
 Best Local Similarity 66.7%; Pred. No. 64;
 Matches 10; Conservative 5; Mismatches 0; Indels 0; Caps 0
 XX
 Qy 3 AAUTAUAGGCCUGCU 17
 Db ||:||:||:||:||:||:||:||:
 305 AATTGTTGCCCTGT 319

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Copyright (c) 1993 - 2005 Compugen Ltd.	GenCore version 5.1.6	EBFO02_sq	BM443576
		BB710886	BB710886
		BU019684	QH822N11.
OM nucleic - nucleic search, using SW model		CO190893	EKO50016.
Run on:	November 29, 2005, 18:29:48 ; Search time 1867.5 Seconds (without alignments)	C 23	345 3
	450.960 Million cell updates/sec	C 24	345 3
Title:	US-10-018-716B-1	C 25	346 2
Perfect score:	18	C 26	346 5
Sequence:	1 gagcaggccataattat 18	C 27	346 5
Scoring table:	OLIGO_NUC Gapop_60.0 , Gapext 60.0	C 28	346 7
Searched:	41078325 seqs, 23393541228 residues	C 29	346 10
Word Size :	0	C 30	346 10
Total number of hits satisfying chosen parameters:	82156650	C 31	347 1
Minimum DB seq length: 0		C 32	347 1
Maximum DB seq length: 2000000000		C 33	347 1
Post-processing: Listing first 45 summaries		C 34	347 5
Database :	EST:* 1: gb_est1: 2: gb_est2: 3: gb_est3: 4: gb_htc: 5: gb_est4: 6: gb_est5: 7: gb_est6: 8: gb_est7: 9: gb_gss1: 10: gb_gss2: 11: gb_gss3: 12: gb_gss4: 13: gb_gss5: 14: gb_gss6: 15: gb_gss7: 16: gb_gss8: 17: gb_gss9: 18: gb_gss10: 19: gb_gss11: 20: gb_gss12: 21: gb_gss13: 22: gb_gss14: 23: gb_gss15: 24: gb_gss16: 25: gb_gss17: 26: gb_gss18: 27: gb_gss19: 28: gb_gss20: 29: gb_gss21: 30: gb_gss22: 31: gb_gss23: 32: gb_gss24: 33: gb_gss25: 34: gb_gss26: 35: gb_gss27: 36: gb_gss28: 37: gb_gss29: 38: gb_gss30: 39: gb_gss31: 40: gb_gss32: 41: gb_gss33: 42: gb_gss34: 43: gb_gss35: 44: gb_gss36: 45: gb_gss37: 46: gb_gss38: 47: gb_gss39: 48: gb_gss40: 49: gb_gss41: 50: gb_gss42: 51: gb_gss43: 52: gb_gss44: 53: gb_gss45: 54: gb_gss46: 55: gb_gss47: 56: gb_gss48: 57: gb_gss49: 58: gb_gss50: 59: gb_gss51: 60: gb_gss52: 61: gb_gss53: 62: gb_gss54: 63: gb_gss55: 64: gb_gss56: 65: gb_gss57: 66: gb_gss58: 67: gb_gss59: 68: gb_gss60: 69: gb_gss61: 70: gb_gss62: 71: gb_gss63: 72: gb_gss64: 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gb_gss627: 636: gb_gss628: 637: gb_gss629: 638: gb_gss630: 639: gb_gss631: 640: gb_gss632: 641: gb_gss633: 642: gb_gss634: 643: gb_gss635: 644: gb_gss636: 645: gb_gss637: 646: gb_gss638: 647: gb_gss639: 648: gb_gss640: 649: gb_gss641: 650: gb_gss642: 651: gb_gss643: 652: gb_gss644: 653: gb_gss645: 654: gb_gss646: 655: gb_gss647: 656: gb_gss648: 657: gb_gss649: 658: gb_gss650: 659: gb_gss651: 660: gb_gss652: 661: gb_gss653: 662: gb_gss654: 663: gb_gss655: 664: gb_gss656: 665: gb_gss657: 666: gb_gss658: 667: gb_gss659: 668: gb_gss660: 669: gb_gss661: 670: gb_gss662: 671: gb_gss663: 672: gb_gss664: 673: gb_gss665: 674: gb_gss666: 675: gb_gss667: 676: gb_gss668: 677: gb_gss669: 678: gb_gss670: 679: gb_gss671: 680: gb_gss672: 681: gb_gss673: 682: gb_gss674: 683: gb_gss675: 684: gb_gss676: 685: gb_gss677: 686: gb_gss678: 687: gb_gss679: 688: gb_gss680: 689: gb_gss681: 690: gb_gss682: 691: gb_gss683: 692: gb_gss684: 693: gb_gss685: 694: gb_gss686: 695: gb_gss687: 696: gb_gss688: 697: gb_gss689: 698: gb_gss690: 699: gb_gss691: 700: gb_gss692: 701: gb_gss693: 702: gb_gss694: 703: gb_gss695: 704: gb_gss696: 705: gb_gss697: 706: gb_gss698: 707: gb_gss699: 708: gb_gss700: 709: gb_gss701: 710: gb_gss702: 711: gb_gss703: 712: gb_gss704: 713: gb_gss705: 714: gb_gss706: 715: gb_gss707: 716: gb_gss708: 717: gb_gss709: 718: gb_gss710: 719: gb_gss711: 720: gb_gss712: 721: gb_gss713: 722: gb_gss714: 723: gb_gss715: 724: gb_gss716: 725: gb_gss717: 726: gb_gss718: 727: gb_gss719: 728: gb_gss720: 729: gb_gss721: 730: gb_gss722: 731: gb_gss723: 732: gb_gss724: 733: gb_gss725: 734: gb_gss726: 735: gb_gss727: 736: gb_gss728: 737: gb_gss729: 738: gb_gss730: 739: gb_gss731: 740: gb_gss732: 741: gb_gss733: 742: gb_gss734: 743: gb_gss735: 744: gb_gss736: 745: gb_gss737: 746: gb_gss738: 747: gb_gss739: 748: gb_gss740: 749: gb_gss741: 750: gb_gss742: 751: gb_gss743: 752: gb_gss744: 753: gb_gss745: 754: gb_gss746: 755: gb_gss747: 756: gb_gss748: 757: gb_gss749: 758: gb_gss750: 759: gb_gss751: 760: gb_gss752: 761: gb_gss753: 762: gb_gss754: 763: gb_gss755: 764: gb_gss756: 765: gb_gss757: 766: gb_gss758: 767: gb_gss759: 768: gb_gss760: 769: gb_gss761: 770: gb_gss762: 771: gb_gss763: 772: gb_gss764: 773: gb_gss765: 774: gb_gss766: 775: gb_gss767: 776: gb_gss768: 777: gb_gss769: 778: gb_gss770: 779: gb_gss771: 780: gb_gss772: 781: gb_gss773: 782: gb_gss774: 783: gb_gss775: 784: gb_gss776: 785: gb_gss777: 786: gb_gss778: 787: gb_gss779: 788: gb_gss780: 789: gb_gss781: 790: gb_gss782: 791: gb_gss783: 792: gb_gss784: 793: gb_gss785: 794: gb_gss786: 795: gb_gss787: 796: gb_gss788: 797: gb_gss789: 798: gb_gss790: 799: gb_gss791: 800: gb_gss792: 801: gb_gss793: 802: gb_gss794: 803: gb_gss795: 804: gb_gss796: 805: gb_gss797: 806:		

source	1. 439 /organism="Ricinus communis" /mol_type="mRNA" /strain="Baker 296" /db_xref="taxon:3988" /clones="pcrs268" /clone_lib="lambdazAPI"	Db	368 AGCAGGGCCATAATTAA 353
/note="Vector: LambdazAPI; Site_1: EcoRI; Site_2: XbaI; Poly(A)+ RNA was purified from developing stage III to stage V (Greenwood & Bewley, Can. J. Bot. 60:1751-1760, 1982) endosperm plus embryo of immature castor fruits. cDNA was synthesized and cloned into lambdazAPI according to the instructions of the manufacturer (Stratagene). Synthesis was primed from the poly(A) tail, and cloned directionally into XbaI (3') and EcoRI (5') sites. In few cases, sequence data indicated that this directionality was reversed. Partial cDNA clones predominate."	RESULT 6 BG600462 LOCUS EST:05357 cSTS Solanum tuberosum cdNA clone cSTS2911 5', sequence. DEFINITION mRNA sequence. ACCESSION BG600462 VERSION EST. KEYWORDS Solanum tuberosum (potato) ORGANISM Solanum tuberosum Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; asterids; lamiales; Solanales; Solanaceae; Solanum. REFERENCE 1 (bases 1 to 652) AUTHORS van der Hoeven,R., Bezzerril,J., Sun,H., Cho,J., Chiemingo,A., Bouuri,O., Buel,C.R., Ronning,C., Tanksley,S. and Baker,B. TITLE Generations of ESTs from sprouting potato eyes JOURNAL Unpublished (2000) COMMENT Contact: Robin Buel The Institute for Genomic Research 9712 Medical Center Dr, Rockville, MD 20850, USA Email: potato-array@tigr.org This clone can be obtained from the University of Arizona Genomics Institute. Orders can be made through URL: http://genome.arizona.edu/orders/ Seq primer: M13F-R	Source	1. .652 /organism="Solanum tuberosum" /mol_type="mRNA" /cultivar="Kennebec" /db_xref="taxon:4113" /clone="cSTS2911" /tissue_type="sprouting eyes from tubers" /dev_stage="12-14 weeks post harvest" /lab_name="SOLR" /clone_lib="cSTS" /note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2: XbaI; Various sizes of sprouting eyes (72mm to 15mm) were taken from tubers. The tubers were incubated at 26C in the dark for 2-3 weeks prior to sprouting. The eyes were frozen in liquid nitrogen immediately upon removal from tubers."
ORIGIN	Query Match 88.9%; Score 16; DB 8; Length 439; Best Local Similarity 100.0%; Pred. No. 1e+02; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	1 GAGCAGGGCCATAATT 16
		Db	317 GAGCAGGGCCATAATT 332
RESULTS 5	BP191026 LOCUS BP191026 planarian head mRNA linear EST 17-JUL-2003 DEFINITION mRNA sequence.	BP191026 LOCUS BP191026 planarian head cdNA japonica mRNA clone 06171_HH, mRNA sequence.	BP191026 LOCUS BP191026.1 GI:32905550
ACCESSION BP191026	VERSION EST.	KEYWORDS Dugesia japonica	ORGANISM Dugesia japonica Bukaryota; Metazoa; Platyhelminthes; Turbellaria; Seriata; Trichadida; Paludicola; Dugesiidae; Dugessia.
AUTHORS Mineta,K., Nakazawa,M., Cebrina,F., Ikeo,K., Agata,K. and Gojobori,T.	TITLE Origin and evolutionary process of the CNS elucidated by comparative genomics analysis of planarian ESTs	JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7666-7671 (2003)	COMMENT Contact: Katsuhiro Mineta National Institute of Genetics, Center for Information Biology and DNA Data Bank of Japan 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6847 Fax: 81-559-81-6848 Email: kmineta@ab.nig.ac.jp These clones and additional information are obtained from our web site: http://www.cib.nig.ac.jp/dda/ .
PUBMED 1280212	FEATURES Location/Qualifiers	COMMENT 1. .500 /organism="Dugesia japonica" /mol_type="mRNA" /db_xref="taxon:6161" /clone="06171_HH" /tissue_type="head" /dev_stage="adult" /clone_lib="planarian head cdNA"	Query Match 88.9%; Score 16; DB 2; Length 652; Best Local Similarity 100.0%; Pred. No. 1.e+02; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
COMMENT	REFERENCE AUTHORS	REFERENCE AUTHORS	REFERENCE AUTHORS
National Institute of Genetics, Center for Information Biology and DNA Data Bank of Japan 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6847 Fax: 81-559-81-6848 Email: kmineta@ab.nig.ac.jp These clones and additional information are obtained from our web site: http://www.cib.nig.ac.jp/dda/ .	1. 500 /organism="Dugesia japonica" /mol_type="mRNA" /db_xref="taxon:6161" /clone="06171_HH" /tissue_type="head" /dev_stage="adult" /clone_lib="planarian head cdNA"	Query Match 88.9%; Score 16; DB 3; Length 500; Best Local Similarity 100.0%; Pred. No. 1e+02; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	RESULT 7 CX409188 LOCUS CX409188 DEFINITION JGI X2T32096.Fwd NIH XGC tropfrads Xenopus tropicalis cdNA clone IMAGE:7600418 5', mRNA sequence. ACCESSION CX409188 VERSION EST. KEYWORDS Xenopus tropicalis (western clawed frog) ORGANISM Xenopus tropicalis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Xenopodinae; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Amphibia; Xenopus; Siurana. REFERENCE 1 (bases 1 to 740) AUTHORS Richardson,P., Lucas,S., Rokhsar,D., Detter,J.C., Ng,D.C., Brokstein,P. and Lindquist,E.A.
ORIGIN	Query Match 88.9%; Score 16; DB 3; Length 500; Best Local Similarity 100.0%; Pred. No. 1e+02; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy	2 AGCAGGGCCATAATT 17

TITLE	DOE Joint Genome Institute <i>Xenopus tropicalis</i> EST project	PUBMED	15660154
JOURNAL	Unpublished (2004)	COMMENT	Contact: Bedell, J.A.
COMMENT	Contact: Lindquist, R.A., Richardson, P.		Orion Genomics, LLC
DOI	Joint Genome Institute		4041 Forest Park Ave, St. Louis, MO 63108, USA
TELE	2800 Mitchell Drive, Walnut Creek, CA 94598, USA		Tel: 314 615 6979
TEL	925 296 5600		Fax: 314 615 5975
FAX	925 296 5710		Email: jbedell@oriongenomics.com
EMAIL	cdaa@jgi-psf.org		Plate: 370 row: e column: 13
Tissue Procurement:	Richard M. Harland Laboratory, University of California, Berkeley: http://tropicalis.berkeley.edu/home		Seq primer: SWfor Forward
CDNA Library Preparation:	Richard M. Harland Laboratory, University of California, Berkeley		Class: methylation filtered
DNA Sequencing:	DOE Joint Genome Institute: http://www.jgi.doe.gov		High quality sequence stop: 747.
Clone Distribution:	I.M.A.G.E. Consortium/LINL: http://image.llnl.gov		Location/Qualifiers
Naming Conventions:	EST name is generated by the concatenation of the JGI Clone Id and the direction of sequencing. The suffix '.fwd' indicates a forward sequencing read of the insert. It does not necessarily reflect the orientation of the insert.		1..747
Plate:	XZT 0333 row: o column: 8		/organism="Sorghum bicolor"
	High quality sequence stop: 706.		/mol_type="Genomic DNA"
FEATURES	Location/Qualifiers		/cultivar="Ax623"
SOURCE	1..740		/db_xref="10812405"
	/organism="Xenopus tropicalis"		/clone_id="Sorghum methylation-filtered library (LibID: 104)"
	/mol_type="mRNA"		/note="Organ: leaf; Vector: PBCSK(-); Site_1: HincII; DNA prepared from purified nuclei was randomly sheared, end-repaired, size fractionated to enrich for the 0.5 to 5 kb fraction, ligated into HincII digested PBCSK(-) vector and electroporated into E. coli cells. This is a methylation-filtered library."
ORIGIN			
		Query Match	88.9%; Score 16; DB 10; Length 747;
		Best Local Similarity	100.0%; Pred. No. 1.1e+02;
		Matches	16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy		2 AGCAGGCCATAATTA 17	
Db		402 AGCAGGCCATAATTA 387	
RESULT	9		
	CW385975	LOCUS	CW385975 752 bp DNA linear GSS 01-NOV-2004
		DEFINITION	fabb001f069k13k0 Sorghum methylation filtered library (LibID: 104)
			Sorghum bicolor genomic clone fabb001f069k13, Genomic survey sequence.
ORIGIN		ACCESSION	CW385975
		VERSION	GI:55104419
		KEYWORDS	
		ORGANISM	Sorghum bicolor (sorghum)
		SOURCE	Eukaryot; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; clade: Panicoideae; Andropogoneae; Poales; Poaceae; PACCD
REFERENCE	1 (bases 1 to 752)	AUTHORS	Bedell, J.A.; Budiman, M.A.; Nunberg, A.; Citek, R.W.; Robbins, D.; Jones, J.; Flick, E.; Rohlfing, T.; Fries, J.; Bradford, K.; McMenamy, J.; Smith, M.; Holman, H.; Roe, B.A.; Wiley, G.; Korf, I.F.; Rabinowicz, P.D.; Lakey, N.; McCombie, W.R.; Jeddoh, J.A. and Martienssen, R.A.
AUTHORS		COMMENT	Sorghum genome sequencing by methylation filtration
TITLE		JOURNAL	PLoS Biol. 3 (1), e13 (2005)
PUBMED	15660154		
COMMENT			
RESULT	8		
CL169941/c	CL169941 747 bp DNA linear GSS 06-JAN-2004	LOCUS	CL169941 747 bp DNA linear GSS 06-JAN-2004
DEFINITION	104_370_10813405_148_31788_109 Sorghum methylation-filtered library (LibID: 104) Sorghum_bicolor genomic clone 10813405, Genomic survey sequence.		
ACCESSION	CL169941	KEYWORDS	
KEYWORDS	GSS.	SOURCE	Sorghum bicolor (sorghum)
ORGANISM			Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; clade: Panicoideae; Andropogoneae; Poales; Poaceae; PACCD
REFERENCE	1 (bases 1 to 747)	AUTHORS	Bedell, J.A.; Budiman, M.A.; Nunberg, A.; Citek, R.W.; Robbins, D.; Jones, J.; Flick, E.; Rohlfing, T.; Fries, J.; Bradford, K.; McMenamy, J.; Smith, M.; Holman, H.; Roe, B.A.; Wiley, G.; Korf, I.F.; Rabinowicz, P.D.; Lakey, N.; McCombie, W.R.; Jeddoh, J.A. and Martienssen, R.A.
AUTHORS		COMMENT	Sorghum genome sequencing by methylation filtration
TITLE		JOURNAL	PLoS Biol. 3 (1), e13 (2005)
JOURNAL			

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/mol type="genomic DNA"
/cultivar=ATx23"
/db xref="fab001f069k13"
/clone_lib="Sorghum methylation filtered library (LibID:
104)"
/notes="Organ: leaf; Vector: pBCK(-); Site_1: HincII; DNA
prepared from purified nuclei was randomly sheared,
end-repaired, size fractionated to enrich for the 0.5 to 5
kb fraction, ligated into HincII-digested pBSK(-) vector
and electroporated into E. coli cells. This is a
methylation filtered library."

```

ORIGIN

```

Query Match 88.9%; Score 16; DB 10; Length 752;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 AGGAGGGCCATAATTA 17
Db 599 AGAAGGGCCATAATTA 614

```

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RESULT 10
LOCUS BG889203 759 bp mRNA linear EST 07-MAR-2003
DEFINITION EST5_5054 cSTD solanum tuberosum CDNA clone cSTD13G2 5' sequence,
mRNA sequence.

```

```

ACCESSION BG889203
VERSION 1
KEYWORDS EST.
ORGANISM Solanum tuberosum
Solanum tuberosum
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophytina; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
asterids; Lamiales; Solanaeae; Solanum.
REFERENCE 1 (bases 1 to 759)
AUTHORS van der Heeven,R., Bezzerezides,J., Ewing,B., Cho,J., Chiemingo,A.,
Bougr,O., Bueli,C.R., Ronning,C., Tanksley,S., and Baker,B.
TITLE Unpublished (2001)
JOURNAL
COMMENT Contact: Robin Buell
The Institute for Genomic Research
9712 Medical Center Dr, Rockville, MD 20850, USA
Email: potato-array@igr.org
This clone can be obtained from the University of Arizona Genetics
Institute. Orders can be made through URL:
http://genome.arizona.edu/orders/
Seq primer: M13P-R.
```

FEATURES SOURCE

```

1. .759
/organism="Solanum tuberosum"
/mol type="mRNA"
/cultivar="Kennebec"
/db xref="taxon:4113"
/clone="cSTD13G2"
/tissue type="dormant tuber"
/dev stage="one month post-harvest"
/lab host="SOLR"
/clone lib="cSTD"
/notes="Vector: pBluescript SK(-); Site_1: EcoRI; Site_2:
XbaI; This library targets genes expressed in dormant
tubers. This library was made from sections of dormant
tuber, avoiding the buds and epidermis. Tubers were stored
for one month post-harvest at 4°C. The tuber was peeled,
well away from the surface. Then it was chopped into 1-2
mm cubes and immediately frozen in liquid nitrogen. This
library is noted as p4 in Tanksley lab notebooks."
```

ORIGIN

```

Query Match 88.9%; Score 16; DB 10; Length 761;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 AGGAGGGCCATAATTA 17
Db 639 AGAAGGGCCATAATTA 654

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```

Query Match 88.9%; Score 16; DB 2; Length 759;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 GAGCAGGGCCATAATT 16
Db 606 GAGCAGGGCCATAATT 621

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RESULT 11

LOCUS CL169940 761 bp DNA linear GSS 06-JAN-2004

DEFINITION 104_370_10813405_116_31789_109_Sorghum methylation-filtered library
(LibID: 104) Sorghum_bicolor genomic clone 10813405, genomic survey
sequence.

ACCESSION CL169940

VERSION CL169940.1 GI:40682352

KEYWORDS GSS.

Sorghum bicolor (sorghum)

ORGANISM Sorghum bicolor

REFERENCE 1 (bases 1 to 761)

AUTHORS Bedell,J.A., Budiman,M.A., Number,A., Citek,R.W., Robbins,D.,
Jones,J., Flick,E., Rohlfing,T., Fries,J., Bradford,K.,
McMenamy,J.J., Smith,M., Holman,H., Roe,B.A., Wiley,G.,
Rabinowicz,P.D., Lakey,N., McCombie,W.R., Jeddoh,J.A. and
Martienssen,R.A.

TITLE Sorghum genome sequencing by methylation filtration

JOURNAL PLOS Biol. 3 (1), e13 (2005)

PUBLMED 15660154

COMMENT Contact: Bedell JA
Orion Genomics, LLC
4041 Forest Park Ave, St. Louis, MO 63108, USA
Tel: 314 615 6979
Fax: 314 615 5975
Email: jbedell@oriongenomics.com
Plate: 370 row: e column: 13
Seq primer: T3 Reverse
Class: methylation filtered
High quality sequence stop: 761.

FEATURES SOURCE Location/Qualifiers

1. .761
/organism="Sorghum bicolor"
/mol type="genomic DNA"
/cultivar="ATx623"
/db xref="taxon:4558"
/clone lib="Sorghum methylation-filtered library (LibID:
104)"
/notes="Organ: leaf; Vector: pBCK(-); Site_1: HincII; DNA
prepared from purified nuclei was randomly sheared,
end-repaired, size fractionated to enrich for the 0.5 to 5
kb fraction, ligated into HincII-digested pBCK(-) vector
and electroporated into E. coli cells. This is a
methylation-filtered library."

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 761;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGGAGGGCCATAATTA 17
Db 639 AGAAGGGCCATAATTA 654

RESULT 12

LOCUS CL033121/C 1030 bp CH216_Xenopus tropicaalis genomic clone

DEFINITION CH216_36A12_Sp6.1 CH216_Xenopus tropicaalis genomic survey sequence.

ACCESSION CL033121

VERSION CL033121.1 GI:40483484

KEYWORDS GSS.

SOURCE	Xenopus tropicalis (western clawed frog)
ORGANISM	Xenopus tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae; Xenopodinae; Xenopus; Silurana.	
REFERENCE AUTHORS	Krenitzki, C., Carter, J., McPherson, J., Warren, W., Graves, T., Mardis, E., and Wilson, R.
TITLE JOURNAL COMMENT	A physical map of the xenopus tropicalis genome Unpublished (2003) Contact: Richard K Wilson Genome Sequencing Center Washington University School of Medicine Email: submissions@watson.wustl.edu Insert Length: 17500 Std Error: 0.00 Seq primer: sp6 ATTAGGTGACATATAG Class: BAC ends High Quality sequence start: 29 High Quality sequence stop: 943.
FEATURES SOURCE	Location/Qualifiers 1..1030 /organism="Xenopus tropicalis" /mol type="genomic DNA" /strain="Nigerian frog" /db_xref="taxon:8364" /clone="CH216-36A12" /sex="male" /cell line="Stock 248 F7A2, inbred N7" /clone lib="CH216" /note="Vector: pTARBAC2.1; CHORI-216 Xenopus tropicalis BAC library"
ORIGIN	Query Match 88.9%; Score 16; DB 10; Length 1030; Best Local Similarity 100.0%; Pred. No. 1.1e+02; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0; EST. 3 GCAGGGCCATAATTAT 18 47 GCAGGGCCATAATTAT 32
RESULT 13	CD963839/c LOCUS SDY_133 GenetTag2 Zea mays cDNA, mRNA Sequence. DEFINITION ACETYLATION VERSION CD963839 SOURCE CD963839.1 GI:32824117 ORGANISM Zea mays Eukaryota; Viridiplantae; Streptophyta; Embryophytta; Tracheophyta; Spermatophytina; Magnoliophytina; Liliopsida; Poales; PACCAD clade; Panicoideae; Andropogoneae; Zea.
REFERENCE AUTHORS	Genoplante Genoplante, a major partnership French program in plant genomics Unpublished (2003) Contact: Genoplante 93, rue Henri Rochefort 91025 EVRY CEDEX France Tel: 33 1 69 47 54 00 Fax: 33 1 69 47 54 10
JOURNAL COMMENT	This sequence has been generated in the framework of the french plant genomics programme 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infobiogen.fr). Location/Qualifiers 1..85 /organism="Zea mays" /mol type="mRNA" /cluEivar="mixture" /db_xref="taxon:4577" /clone lib="GeneTeg2"
FEATURES SOURCE	Query Match 83.3%; Score 15; DB 10; Length 95; Best Local Similarity 100.0%; Pred. No. 3.8e+02; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0; EST. 1 GAGCGGCCATAATT 15 61 GAGCGGCCATAATT 47
ORIGIN	CG560188 LOCUS CG560188 DEFINITION mRNA Sequence. CG560188 CG560188.1 GI:37346775 ACCESSION CG560188 VERSION GSS. KEYWORDS SOURCE Mus musculus (house mouse) ORGANISM Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathii; Muroidea; Muridae; Murinae; Mus. REFERENCE 1 (bases 1 to 95) AUTHORS Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J., Piggott, J., Beltran-Rio, H., Burton, E.C., Edwards, J., Finch, R.A., Priddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Wallace, W., Xu, N., Zhu, Q., Person, C., and Sands, A.T. TITLE wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003) COMMENT Contact: Zambrowicz BP OmniBank Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, USA Email: materials@lexgen.com Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11) Class: Gene Trap Contact: Zambrowicz BP 1..95 /organism="Mus musculus" /mol type="mRNA" /strain="129Sv/Ev" /db_xref="taxon:10090" /clone="OST180267" /cell type="embryonic stem cell" /clone lib="Mus musculus 129Sv/Ev"
FEATURES SOURCE	Query Match 83.3%; Score 15; DB 10; Length 95; Best Local Similarity 100.0%; Pred. No. 3.8e+02; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0; EST. 3 GCAGGGCCATAATT 17 37 GCAGGGCCATAATT 51
ORIGIN	CG671007 LOCUS CG671007 DEFINITION mRNA Sequence. CG671007 CG671007 ACCESSION CG671007 VERSION GSS. SOURCE Mus musculus (house mouse)
FEATURES SOURCE	RESULT 15 CG671007 LOCUS CG671007 DEFINITION mRNA Sequence. CG671007 CG671007 ACCESSION CG671007 VERSION GSS. KEYWORDS SOURCE Mus musculus (house mouse)

ORGANISM *Mus musculus*
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Murinae; Muridae; Muridae; Mus.

REFERENCE 1 (bases 1 to 102)

AUTHORS Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
 Pigott,J., BeltranDelRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
 Friddle,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
 Key,B.W. Jr., Kipp,F., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
 Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
 Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
 Zhu,Q., Person,C. and Sands,A.T.

TITLE Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)

PUBMED 14610273

COMMENT Contact: Zambrowicz BP

OmniBank Lexicon Genetics Incorporated
 4000 Research Forest Drive, The Woodlands, TX 77381, USA
 Email: materials@lexgen.com

Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)

FEATURES

Source	Location/Qualifiers
1.	.102
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	/mol_type="mRNA"
	/strain="129Sv/Ev"
	/db_xref="Taxon:10090"
	/clone="OSR7216"
	/cell_type="embryonic stem cell"
	/clone_lib="Mus musculus 129Sv/Ev"

ORIGIN

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Query Match          83.3%;  Score 15;  DB 10;  Length 102;
Best Local Similarity 100.0%;  Pred. No. 3.8e+02;
Matches 15;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
Oy      3 GCAGGGCATAATTA 17
Db      28 GCAGGGCATAATTA 42

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Search completed: November 30, 2005, 00:44:45
 Job time : 1871.5 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 136.5 Seconds
 (without alignments)

19.597 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagggccataattat 18

Scoring table: OLIGO_NUC

Gapext 60.0 , Gapext 60.0

Searched: 3205263 seqs, 74304013 residues

Word size : 0

Total number of hits satisfying chosen parameters:

6410526

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA New: *

1: /cgcn2_6_ptodata/2/pubnra/US10_NEW_PUB.seq,*
 2: /cgcn2_6_ptodata/2/pubnra/US06_NEW_PUB.seq,*
 3: /cgcn2_6_ptodata/2/pubnra/US07_NEW_PUB.seq,*
 4: /cgcn2_6_ptodata/2/pubnra/US08_NEW_PUB.seq,*
 5: /cgcn2_6_ptodata/2/pubnra/US09_NEW_PUB.seq,*
 6: /cgcn2_6_ptodata/2/pubnra/US01_PCT_NEW_PUB.seq,*
 7: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB.seq,*
 8: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB.seq,*
 9: /cgcn2_6_ptodata/2/pubnra/US11_NEW_PUB.seq,*
 10: /cgcn2_6_ptodata/2/pubnra/US60_NEW_PUB.seq,*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1	14	77.8	1149	9 US-11-082-389-213 Sequence 213, App
c 2	12	66.7	19	8 US-11-082-389-213 Sequence 213, App
c 3	12	66.7	19	8 US-11-101-244-131535 Sequence 131535,
c 4	12	66.7	19	8 US-11-101-244-339765 Sequence 339765,
c 5	12	66.7	19	8 US-11-101-244-500029 Sequence 600029,
c 6	12	66.7	19	8 US-11-101-244-104092 Sequence 104092,
c 7	12	66.7	19	8 US-11-101-244-1044118 Sequence 1044118,
c 8	12	66.7	19	8 US-11-101-244-1152178 Sequence 1152178,
c 9	12	66.7	19	8 US-11-101-244-1152276 Sequence 1152276,
c 10	12	66.7	19	8 US-11-101-244-1430673 Sequence 1430673,
c 11	12	66.7	19	8 US-11-101-244-1430674 Sequence 1430674,
c 12	12	66.7	19	8 US-11-083-784-1173294 Sequence 1173294,
c 13	12	66.7	19	9 US-11-083-784-139765 Sequence 139765,
c 14	12	66.7	19	9 US-11-083-784-00029 Sequence 600029,
c 15	12	66.7	19	9 US-11-083-784-1044082 Sequence 1044082,
c 16	12	66.7	19	9 US-11-083-784-1044118 Sequence 1044118,
c 17	12	66.7	19	9 US-11-083-784-1152276 Sequence 1152276,
c 18	12	66.7	19	9 US-11-083-784-131535 Sequence 131535,
c 19	12	66.7	19	9 US-11-083-784-1430673 Sequence 1430673,
c 20	12	66.7	19	9 US-11-083-784-1430673 Sequence 1430673,
c 21	12	66.7	19	9 US-11-083-784-1430674 Sequence 1430674,
c 22	12	66.7	844	9 US-11-082-899-141 Sequence 441,
c 23	12	66.7	1095	9 US-11-082-389-439 Sequence 439, App

Sequence 239, APP
 Sequence 3510, APP
 Sequence 164, APP
 Sequence 1, APP1
 Sequence 341877,
 Sequence 343613,
 Sequence 343631,
 Sequence 374101,
 Sequence 380293,
 Sequence 425500,
 Sequence 425510,
 Sequence 425527,
 Sequence 425539,
 Sequence 661697,
 Sequence 716974,
 Sequence 725866,
 Sequence 764763,
 Sequence 764830,
 Sequence 799257,
 Sequence 828288,

ALIGNMENTS

RESULT 1
 US-11-082-189-213/C
 ; Sequence 213, Application US/11082389
 ; Publication No. US20050244935A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Pompejus, Markus
 ; APPLICANT: Kroger, Burkhard
 ; APPLICANT: Schroder, Hartwig
 ; APPLICANT: Zelder, Oskar
 ; APPLICANT: Haberhauer, Gregor
 ; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
 ; TITLE OF INVENTION: INVOLVED IN TRANSPORT
 ; FILE REFERENCE: BG1-131CPCN
 ; CURRENT APPLICATION NUMBER: US/11/082, 389
 ; CURRENT FILING DATE: 2005-03-16
 ; PRIOR APPLICATION NUMBER: US 09/603 024
 ; PRIOR FILING DATE: 2000-06-23
 ; PRIOR APPLICATION NUMBER: US 60/141 031
 ; PRIOR FILING DATE: 1999-06-25
 ; PRIOR APPLICATION NUMBER: US 60/143 262
 ; PRIOR APPLICATION NUMBER: US 60/151 281
 ; PRIOR FILING DATE: 1999-07-09
 ; PRIOR APPLICATION NUMBER: DE 19930487-4
 ; PRIOR FILING DATE: 1999-07-01
 ; PRIOR APPLICATION NUMBER: DE 19930489-0
 ; PRIOR FILING DATE: 1999-07-01
 ; PRIOR APPLICATION NUMBER: DE 19931549-3
 ; PRIOR FILING DATE: 1999-07-08
 ; PRIOR APPLICATION NUMBER: DE 19931550-7
 ; PRIOR FILING DATE: 1999-07-08
 ; PRIOR APPLICATION NUMBER: DE 19932134-5
 ; PRIOR FILING DATE: 1999-07-09
 ; PRIOR APPLICATION NUMBER: DE 19941379-7
 ; PRIOR FILING DATE: 1999-08-31
 ; Remaining Prior Application data removed - See File Wrapper or PAML.
 ; NUMBER OF SEQ ID NOS: 446
 ; SEQ ID NO 213
 ; LENGTH: 1149
 ; TYPE: DNA
 ; ORGANISM: Corynebacterium glutamicum
 ; FEATURE: CDS
 ; NAME/KEY: CDS
 ; LOCATION: (101)..(1126)
 ; OTHER INFORMATION: RXN00523

US-11-082-389-213

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 Best Local Similarity 100.0%; Pred. No. 2.3;
 Matches 14; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 1 AGCAGGCCATA 14
 Db 242 GAGCAGGCCATA 229

RESULT 2
 US-11-101-244-173294/C
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13499US
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIORITY FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIORITY FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 173294
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 ; US-11-101-244-173294

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 2 AGCAGGCCATA 13
 Db 14 AGCAGGCCATA 3

RESULT 3
 US-11-101-244-339765
 ; Publication No. US39765, Application US/11101244
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 339765
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIORITY FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIORITY FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 339765
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 ; US-11-101-244-339765

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 75.0%; Pred. No. 34;
 Matches 9; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 6 GGGCTATAATA 17
 Db 8 GGGCTATAATA 19

RESULT 4
 US-11-101-244-600029/C
 ; Sequence 600029, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIORITY FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIORITY FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 600029
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 ; US-11-101-244-600029

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 1 GAGCAGGCCAT 12
 Db 14 GAGCAGGCCAT 3

RESULT 5
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 ; Sequence 1044082, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Khvorova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; APPLICANT: Scaringe, Stephen
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; CURRENT APPLICATION NUMBER: US/11/101,244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIORITY FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIORITY FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 1044082
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo sapiens
 ; US-11-101-244-1044082

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 GAGCAGGCCAT 12
Db 14 GAGCAGGCCAT 3

RESULT 6
US-11-101-244-1044118/c
Sequence 1044118, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khorrova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1044118
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-1044118

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 GAGCAGGCCAT 12
Db 16 GAGCAGGCCAT 5

RESULT 7
US-11-101-244-1152178/c
Sequence 1152178, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khorrova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1152178
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-1152178

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;

Qy 1 GAGCAGGCCAT 12
Db 16 GAGCAGGCCAT 5

RESULT 8
US-11-101-244-1152276/c
Sequence 1152276, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khorrova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1152276
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-1152276

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 GAGCAGGCCAT 12
Db 16 GAGCAGGCCAT 5

RESULT 9
US-11-101-244-1311535/c
Sequence 1311535, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Dharmacon, Inc.
APPLICANT: Khorrova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1311535
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-1311535

Query Match 66.7%; Score 12; DB 8; Length 19;

RESULT 10
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 Sequence 1430673, Application US/11101244
 / GENERAL INFORMATION
 / Publication No. US20050246794A1
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khrorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIOR APPLICATION NUMBER: 60/1502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/1426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 1430673
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-1430673

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 91.7%; Pred. No. 34;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCAT 12
 Db 1 GAGCAGGGCCAU 12

RESULT 11
 US-11-101-244-1430674
 Sequence 1430674, Application US/11101244
 / GENERAL INFORMATION
 / Publication No. US20050246794A1
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khrorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/101,244
 / CURRENT FILING DATE: 2005-04-07
 / PRIOR APPLICATION NUMBER: 60/1502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/1426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 1430674
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-101-244-1430674

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 91.7%; Pred. No. 34;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

RESULT 12
 US-11-083-784-173294/C
 / Sequence 173294, Application US/11083784
 / Publication No. US20050245475A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khrorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/083,784
 / CURRENT FILING DATE: 2005-03-18
 / PRIOR APPLICATION NUMBER: US/10/714,333
 / PRIOR FILING DATE: 2003-11-14
 / PRIOR APPLICATION NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR APPLICATION NUMBER: 60/426,137
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 173294
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-083-784-173294

Query Match 66.7%; Score 12; DB 9; Length 19;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGCAGGGCCATA 13
 Db 14 AGCAGGGCCATA 3

RESULT 13
 US-11-083-784-339765
 / Sequence 339765, Application US/11083784
 / Publication No. US20050245475A1
 / GENERAL INFORMATION:
 / APPLICANT: Dharmacon, Inc.
 / APPLICANT: Khrorova, Anastasia
 / APPLICANT: Reynolds, Angela
 / APPLICANT: Leake, Devin
 / APPLICANT: Marshall, William
 / APPLICANT: Scaringe, Stephen
 / TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 / FILE REFERENCE: 13499US
 / CURRENT APPLICATION NUMBER: US/11/083,784
 / CURRENT FILING DATE: 2005-03-18
 / PRIOR APPLICATION NUMBER: US/10/714,333
 / PRIOR FILING DATE: 2003-11-14
 / PRIOR APPLICATION NUMBER: 60/502,050
 / PRIOR FILING DATE: 2003-09-10
 / PRIOR FILING DATE: 2002-11-14
 / NUMBER OF SEQ ID NOS: 1591911
 / SOFTWARE: Proprietary
 / SEQ ID NO: 339765
 / LENGTH: 19
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-11-083-784-339765

Query Match 66.7%; Score 12; DB 8; Length 19;
 Best Local Similarity 91.7%; Pred. No. 34;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Query Match      66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 0; Indels 0;
Gaps 0;
Organism: Homo sapiens
US-11-083-784-1044082

Qy      6 GGGCATTAATTA 17
        ||||| : |::|
Db      8 GGCCAUAAUA 19

RESULT 14
US-11-083-784-600029/C
; Sequence 600029, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13498US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 600029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-600029

Query Match      66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;
Organism: Homo sapiens
US-11-083-784-1044082/C
; Sequence 1044082, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13498US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO: 1044082
; LENGTH: 19
; TYPE: RNA

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw mode!

Run on: November 29, 2005, 17:06:35 ; Search time 403.5 Seconds

(without alignments)
368,894 Million cell updates/sec

Title: US-10-018-716B-1.
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Sequence: 1 gagaggccataattat 18

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Gapext 60.0 , Gapext 60.0

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA Main:*

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Pred. No. is the number of results Predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Match	Length	DB ID	Description
C 1	18	100.0	441	4 US-09-925-065A-192589	Sequence 192589,
C 2	18	100.0	441	4 US-09-925-065A-192590	Sequence 192590,
C 3	18	100.0	1922	8 US-10-349-528-4	Sequence 4, Appli
C 4	18	100.0	2019	7 US-10-382-248-9	Sequence 9, Appli
C 5	18	100.0	2393	5 US-10-225-567A-121	Sequence 121, Appli
C 6	18	100.0	2393	5 US-10-207-655-64	Sequence 64, Appli
C 7	18	100.0	2393	6 US-10-305-720-1209	Sequence 1209, Appli
C 8	16	88.9	201	8 US-10-719-993-18475	Sequence 38475, A
C 9	16	88.9	612	8 US-09-925-065A-391076	Sequence 391076,
C 10	16	88.9	261638	8 US-10-719-993-6882	Sequence 6882, Ap
C 11	15	83.3	461	4 US-09-925-065A-328046	Sequence 328046,
C 12	15	83.3	507	6 US-10-171-118-205	Sequence 205, Ap
C 13	15	83.3	507	7 US-10-342-887-2085	Sequence 205, Ap
C 14	15	83.3	533	4 US-09-925-065A-520324	Sequence 520324,
C 15	15	83.3	544	4 US-09-925-065A-539398	Sequence 539398,
C 16	15	83.3	612	5 US-10-007-280A-106	Sequence 107, Ap
C 17	15	83.3	628	5 US-10-007-280A-107	Sequence 107, Ap
C 18	15	83.3	842	5 US-10-027-632-160723	Sequence 160723,
C 19	15	83.3	842	5 US-10-027-632-160724	Sequence 160724,
C 20	15	83.3	842	6 US-10-027-632-160723	Sequence 160723,
C 21	15	83.3	1634	7 US-10-027-632-160724	Sequence 160724,
C 22	15	83.3	1634	7 US-10-424-999-14619	Sequence 84419, A
C 23	15	83.3	2021	8 US-10-739-930-4619	Sequence 4619, Ap

RESULT 1

US-09-925-065A-192589/C

; Sequence 192589, Application US/09925065A
; Publication No. US0050228172A9

; GENERAL INFORMATION:

; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827.135

; CURRENT APPLICATION NUMBER: US/09-925, 065A

; PRIORITY APPLICATION NUMBER: US 60/243, 036

; PRIORITY FILING DATE: 2000-10-24

; PRIORITY APPLICATION NUMBER: US 60/252, 147

; PRIORITY FILING DATE: 2000-11-20

; PRIORITY APPLICATION NUMBER: US 60/250, 092

; PRIORITY FILING DATE: 2000-11-30

; PRIORITY APPLICATION NUMBER: US 60/261, 766

; PRIORITY FILING DATE: 2001-01-16

; PRIORITY APPLICATION NUMBER: US 60/289, 846

; PRIORITY FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086

; SOFTWARE: Fastseq for Windows Version 4.0

; SEQ ID NO: 192589

; LENGTH: 441

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-925-065A-192589

; Query Match 100.0%; Score 18; DB 4; Length 441;

; Best Local Similarity 100.0%; Pred. No. 0.47;

; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGGAGGGCCATATTAT 18

Db 335 GAGGAGGGCCATATTAT 318

RESULT 2

US-09-925-065A-192590/C

; Sequence 192590, Application US/09925065A

; Publication No. US0050228172A9

; GENERAL INFORMATION:

; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

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FILE REFERENCE: 108827.135 ; PRIORITY APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08 ; PRIORITY FILING DATE: 2002-01-06
PRIORITY APPLICATION NUMBER: US 60/243,096 ; PRIORITY APPLICATION NUMBER: 60/361,974
PRIORITY FILING DATE: 2000-10-24 ; PRIORITY FILING DATE: 2002-01-19
PRIORITY APPLICATION NUMBER: US 60/252,147 ; PRIORITY APPLICATION NUMBER: 60/401,661
PRIORITY FILING DATE: 2000-11-00 ; PRIORITY FILING DATE: 2002-08-06
PRIORITY APPLICATION NUMBER: US 60/250,092 ; NUMBER OF SEQ ID NOS: 82
PRIORITY FILING DATE: 2000-11-30 ; SOFTWARE: CuraSeqList version 0.1
PRIORITY APPLICATION NUMBER: US 60/261,766 ; SEQ ID NO: 9
PRIORITY FILING DATE: 2001-01-16 ; LENGTH: 2019
PRIORITY APPLICATION NUMBER: US 60/289,846 ; TYPE: DNA
PRIORITY FILING DATE: 2001-05-09 ; ORGANISM: Homo sapiens
NUMBER OF SEQ ID NOS: 957086 ; FEATURE:
SOFTWARE: FairSEQ for Windows Version 4.0 ; NAME/KEY: CDS
SEQ ID NO: 192590 ; LOCATION: (61)..(1959)
LENGTH: 441 ; US-10-382-248-9

Query Match Score 18; DB 4; Length 441;
Best Local Similarity 100.0%; Pred. No. 0.47%; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Db 72 GAGCAGGGCCATAATTAT 55

Qy 1 GAGCAGGGCCATAATTAT 18
Db 335 GAGCAGGGCCATAATTAT 318

RESULT 3
US-10-349-528-4/c
Sequence 4, Application US/10349528
Publication No. US2004053669A1
GENERAL INFORMATION:
APPLICANT: RAMANATHAN, Chandra
APPLICANT: COPAL, Shuba
APPLICANT: MINTIR, Gabe
APPLICANT: FEDER, John
TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTOR (GPCR) VARIANTS AND METHODS OF USE THEREOF
FILE REFERENCE: D0210
CURRENT APPLICATION NUMBER: US/10/349,528
CURRENT FILING DATE: 2003-01-22
NUMBER OF SEQ ID NOS: 35
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 4
LENGTH: 1922
TYPE: DNA
ORGANISM: HOMO SAPIENS
US-10-349-528-4

Query Match Score 18; DB 8; Length 1922;
Best Local Similarity 100.0%; Pred. No. 0.48%; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Db 78 GAGCAGGGCCATAATTAT 61

Qy 1 GAGCAGGGCCATAATTAT 18
Db 28 GAGCAGGGCCATAATTAT 11

RESULT 4
US-10-382-248-9/c
Sequence 9, Application US/10382248
Publication No. US/040058347A1
GENERAL INFORMATION:
APPLICANT: ALBROOK, et al.
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 21402-168C
CURRENT APPLICATION NUMBER: US/10/382,248
CURRENT FILING DATE: 2003-03-05
PRIORITY APPLICATION NUMBER: 60/366,928
PRIOR FILING DATE: 2002-03-22

Query Match Score 18; DB 5; Length 2393;
Best Local Similarity 100.0%; Pred. No. 0.48%; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Db 78 GAGCAGGGCCATAATTAT 61

Qy 1 GAGCAGGGCCATAATTAT 18
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 6
US-10-207-655-64/c
Sequence 64, Application US/10207655
Publication No. US20030118592A1
GENERAL INFORMATION:
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Hayen-Ledbetter, Martha S.
TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
FILE REFERENCE: 390069 401C1
CURRENT APPLICATION NUMBER: US/10/207,655
CURRENT FILING DATE: 2003-07-25
NUMBER OF SEQ ID NOS: 426
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 64
LENGTH: 2393

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RESULT 9
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-207-655-64

Query Match
Best Local Similarity 100.0%; Score 18; DB 5; Length 2393;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 1 GAGCAGGGCCATAATTAT 18
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 7
US-10-305-720-1209/C
; Sequence 1209, Application US/10305720
; Publication No. US2004010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
SEQ ID NO 1209
LENGTH: 2393
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: GenBank ID No. US2004010136A1 9182770
US-10-305-720-1209

Query Match
Best Local Similarity 100.0%; Score 18; DB 6; Length 2393;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 1 GAGCAGGGCCATAATTAT 18
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 8
US-10-719-993-38475/C
; Sequence 38475, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55442
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 38475
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
OTHER INFORMATION: Fasta

Query Match
Best Local Similarity 100.0%; Score 16; DB 8; Length 201;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 3 GCAGGGCCATAATTAT 18
Db 128 GCAGGGCCATAATTAT 113

RESULT 11
US-09-925-065A-391076/c
; Sequence 391076, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 951086
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 391076
LENGTH: 612
TYPE: DNA
ORGANISM: Homo sapiens
OTHER INFORMATION: Fasta

Query Match
Best Local Similarity 100.0%; Score 16; DB 4; Length 612;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 2 AGCGAGGCCATAATTAT 17
Db 580 AGCGAGGCCATAATTAT 565

RESULT 10
US-10-719-993-6882/C
; Sequence 6882, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55442
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6882
LENGTH: 261638
TYPE: DNA
ORGANISM: Homo sapiens
OTHER INFORMATION: Fasta

Query Match
Best Local Similarity 100.0%; Score 16; DB 8; Length 261638;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 3 GCAGGGCCATAATTAT 18
Db 29154 GCAGGGCCATAATTAT 29139

RESULT 12
US-09-925-065A-328046/c
; Sequence 328046, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 951086
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 391076
LENGTH: 612
TYPE: DNA
ORGANISM: Homo sapiens
OTHER INFORMATION: Fasta

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TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
FILE REFERENCE: 108827-135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08
PRIORITY FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261,766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289,846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 328046
LENGTH: 461
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-328046

Query Match 83.3%; Score 15; DB 4; Length 461;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGCAGGGCCATAATT 16
Db 25 ACCAGGGCCATAATT 11

RESULT 12
US-10-172-118-2085
Sequence 2085, Application US/10172118
Publication No. US/030224374A1

GENERAL INFORMATION:
APPLICANT: Dai, Hongyue
APPLICANT: He, Xudong
APPLICANT: Linsley, Peter
APPLICANT: Mao, Mao
APPLICANT: Roberts, Chris
APPLICANT: Van 't Veer, Laura
APPLICANT: Van de Vijver, Marc
APPLICANT: Bernards, René
TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
FILE REFERENCE: 9301-175-999
CURRENT APPLICATION NUMBER: US/10/172,118
CURRENT FILING DATE: 2002-06-14
PRIOR APPLICATION NUMBER: 60/380,770
PRIOR FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 2699
SEQ ID NO 2085
LENGTH: 507
TYPE: DNA
ORGANISM: Homo sapiens
DATABASE ACCESSION NUMBER: Contig23454
DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-2085

Query Match 83.3%; Score 15; DB 6; Length 507;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGCAGGGCCATAATT 16
Db 163 AGCAGGGCCATAATT 177

RESULT 13
US-10-342-887-2085
Sequence 2085, Application US/10342887
Publication No. US/2004058340A1

RESULT 15
US-09-925-065A-539398
Sequence 539398, Application US/09925065A
Publication No. US20050228172A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
FILE REFERENCE: 108827.135
CURRENT APPLICATION NUMBER: US/09/925, 065A
CURRENT FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: US 60/243, 096
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252, 147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250, 092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261, 766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289, 846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSeq For Windows Version 4.0
SEQ ID NO: 539398
LENGTH: 544
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-539398

Query Match 83.3%; Score 15; DB 4; Length 544;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0;
Indels 0; Gaps 0;

Qy	2 AGCGGGCATAATT 16
Db	354 AGCAGGGCATAATT 358

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Job time : 404.5 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:25:08 ; Search time 894.5 Seconds
(without alignments)

1143.859 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagaggccataattat 18

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Word size : 0

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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 2: qb_in:
 3: qb_env:
 4: qb_om:
 5: qb_ov:
 6: qb_pat:
 7: qb_ph:
 8: qb_pr:
 9: qb_ro:
 10: qb_sts:
 11: qb_sy:
 12: qb_un:
 13: qb_vii:
 14: qb_htg:
 15: qb_pl:
 16: qb_in:
 17: qb_om:
 18: qb_pr:
 19: qb_sts:
 20: qb_sy:
 21: qb_vii:
 22: qb_un:
 23: qb_ba:
 24: qb_in:
 25: qb_om:
 26: qb_pr:
 27: qb_sts:
 28: qb_sy:
 29: qb_vii:
 30: qb_un:
 31: qb_ba:
 32: qb_in:
 33: qb_om:
 34: qb_pr:
 35: qb_sts:
 36: qb_sy:
 37: qb_vii:
 38: qb_un:
 39: qb_ba:
 40: qb_in:
 41: qb_om:
 42: qb_pr:
 43: qb_sts:
 44: qb_sy:
 45: qb_vii:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	18	100.0	856	8 HSFSTHR	X68044 H.sapiens m S7199 follicle-st
c 2	18	100.0	1724	8 S73199	Z34260 H. sapiens D AR003719 Sequence
c 3	18	100.0	1734	8 HSFSHX1	AR067576 Sequence
c 4	18	100.0	2179	6 AR003719	AR207283 Sequence
c 5	18	100.0	2179	6 AR067576	AR207283 Sequence
c 6	18	100.0	2179	6 AR067576	AR207283 Sequence
c 7	18	100.0	2179	8 S59900	S59900 follicle st
c 8	18	100.0	2186	8 HUMFHREC	M9489 H.sapiens f A76125 Sequence 1
c 9	18	100.0	2222	6 A76125	CQ715054 Sequence
c 10	18	100.0	2374	6 CQ715054	AR270646 Sequence
c 11	18	100.0	2393	6 AR270646	AX48836 Sequence
c 12	18	100.0	2393	6 AX48836	HUMFHRE
c 13	18	100.0	2393	6 AC083533	M6305 Human foll
c 14	18	100.0	121688	8 AC083533	AC083533 Homo sapi
c 15	18	100.0	158709	14 AC083827	AC083827 Homo sapi
c 16	17	94.4	162	8 HSFSRX1	X91738 H.sapiens 9
c 17	16	88.9	1041	5 AY62217	AY62217 Prictelus
c 18	16	88.9	95681	8 AL157890	AL157890 Human DNA

AC166226 Sorex araneus
AC137655 Bos tauru
AC068758 Homo sapi
AC151504 Dasypus novemcinctus
AC092930 Homo sapi
AC063933 Homo sapi
AC148413 Callithrix jacchus
AC053521 Homo sapi
AC154087 Alligator mississippiensis
AC152783 Rhinolophus ferrumequinum
AC132105 Mus musculus
AC158590 Mus musculus
AC158658 Mus musculus
AC068605 Mus musculus
AC150699 Bos taurus
AC111356 Rattus norvegicus
AC130987 Rattus norvegicus
AC095169 Rattus norvegicus
AR496706 Sequence AR511988 Sequence
AX554759 Sequence AX554760 Sequence
CR760514 Xenopus laevis
BC061373 Xenopus tropicalis
AB023467 Metachirus niger
BC034230 Homo sapi

ALIGNMENTS

RESULT 1
 HSFSTHR/C
 DEFINITION H.sapiens mRNA for follicle-stimulating hormone receptor.
 LOCUS X68044
 ACCESSION X68044
 VERSION 1
 KEYWORDS GI:31473
 follice stimulating hormone receptor.
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo; Hominidae; Homo
 REFERENCES 1 (bases 1 to 856)
 AUTHORS Gromoll,J., Gudermann,T. and Nieschlag,E.
 TITLE Molecular cloning of a truncated isoform of the human follicle
 stimulating hormone receptor
 JOURNAL Biochem. Biophys. Res. Commun. 188 (3), 1077-1083 (1992)
 PUBMED 1355889
 REFERENCE 2
 AUTHORS Gromoll,J.
 TITLE Direct Submission
 JOURNAL Submitted (11-AUG-1992) J. Gromoll, Institut für Reproduktion und Medizin, Steinfurter Strasse 107, 4400 Muenster, FRG
 FEATURES Source
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="UniProtKB: P23945"
 /db_xref="taxon:9606"
 /tissue_type="testis"
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 /db_xref="GI:31474"
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 EKANNLYIYNEPAGQNLPNQYLISNTGKHLDPVGKHLPSQKVLIDQDNINHTI
 ERNSFTGLSFESESVILNLKNGIQEIRNCAFGNTQLDDELNLSDNNNLLELPDVFCGAS
 GPVILSELHPICNKPIRQEVDMYOTQRGQSSLAEDNESSYSRGFDMTYEFDYDC

	NEVV"	AUTHORS Gromoll,J. JOURNAL Thesis (1994) Institute of Reproductive Medicine, University of Muenster REFERENCE 2 (bases 1 to 1734)
ORIGIN		DEFINITION Characterization of the 5'-flanking region of the human follicle stimulating hormone receptor gene
Query Match	Score 18; DB 8; Length 856; Best Local Similarity 100.0%; Pred. No. 5.6; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	AUTHORS Gromoll,J. TITLE Unpublished JOURNAL Submitted (01-JUN-1994) Gromoll J., University of Muenster Institute of Reproductive Medicine Steinfurter Str. 107 Muenster Germany 48149
Qy	1 GACCAAGGCCATATTAT 18	FEATURES Location/Qualifiers 1..1734 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /cell_type="neukocyte" /tissue_type="Blood" /clone_lib="genomic EMBL3" exon /product="FSH receptor" /number=1
Db	28 GAGCAGGGCCATATTAT 11	/number=1
RESULT 2		ORIGIN
LOCUS S73199/c	S73199 1724 bp DNA linear PRI 28-FEB-1995 [human, Genomic, follicle-stimulating hormone receptor {5' region}]	Query Match 100.0%; Score 18; DB 8; Length 1734; Best Local Similarity 100.0%; Pred. No. 5.6; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DEFINITION	Characterization of the 5'-flanking region of the human follicle-stimulating hormone receptor gene	Qy 1 GAGCGGGGCCATAATTAT 18
ACCESSION S73199	Mol. Cell. Endocrinol. 102 (1-2), 93-102 (1994)	Db 1498 GAGCGGGGCCATAATTAT 1481
VERSION S73199.1	GenBank staff at the National Library of Medicine created this entry [NCBI gibbsg 155303] from the Original journal article.	RESULT 4 AR003719/c
KEYWORDS	1..1724	LOCUS AR003719
SOURCE Homo sapiens (human)	Location/Qualifiers	DEFINITION Sequence 1 from patent US 5744448.
ORGANISM Homo sapiens	1..1724	ACCESSION AR003719
REFERENCE AUTHORS Gromoll,J., Dankbar,B. and Gudermann,T.	/organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606"	KEYWORD AR003719.1
TITLE	Characterization of the 5'-flanking region of the human follicle-stimulating hormone receptor gene	SOURCE Unknown.
JOURNAL Mol. Cell. Endocrinol. 102 (1-2), 93-102 (1994)	MATCHES 1..1724	ORGANISM Unknown.
PUBMED 7926278	REMARK entry [NCBI gibbsg 155303] from the Original journal article.	REFERENCE Unknown.
REMARK	Location/Qualifiers	AUTHORS Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and Schweickhardt,R.Jynn.
FEATURES	1..1724	TITLE Human Follicle Stimulating hormone receptor Patent: US 5744448-A 1-28-APR-1998;
Source	/organism="Homo sapiens" /mol_type="genomic DNA"	JOURNAL Features 1..2179
gene	/db_xref="taxon:9606"	Source /organism="unknown" /mol_type="unassigned DNA"
CDS	1487..1642	ORIGIN
	/Gene="follicle-stimulating hormone receptor, FSHR"	Query Match 100.0%; Score 18; DB 6; Length 2179; Best Local Similarity 100.0%; Pred. No. 5.6; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
	1487..1642	Qy 1 GAGCGGGGCCATAATTAT 18
	/Gene="follicle-stimulating hormone receptor, FSHR"	Db 86 GAGCGGGGCCATAATTAT 69
	/note="FSHR"	RESULT 5 AR067576/c
	/codon_start=1	LOCUS AR067576
	/product="follicle-stimulating hormone receptor"	DEFINITION Sequence 1 from patent US 5851768.
	/protein_id="ABB32071.1"	ACCESSION AR067576
	/db_xref="GI:665037"	REFERENCE
	/translation="MALLIVSLLAFLSLGGCHHRICHCSNRYFLCQESKVTRIPSDLPRNAEL"	3 HSFHX1/c
ORIGIN		DEFINITION H.sapiens DNA for follicle stimulating hormone (FSH) receptor.
Query Match	Score 18; DB 8; Length 1724; Best Local Similarity 100.0%; Pred. No. 5.6; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	LOCUS H.SFHX1
Qy	1 GAGCAGGGCCATATTAT 18	DEFINITION H.sapiens DNA for follicle stimulating hormone (FSH) receptor.
Db	1498 GAGCAGGGCCATATTAT 1481	ACCESSION Z34460
RESULT 3		VERSION Z34460..1
LOCUS H.SFHX1/c		KEYWORDS
DEFINITION H.sapiens DNA for follicle stimulating hormone (FSH) receptor.	Homo sapiens (human)	Source Homo sapiens
ACCESSION Z34460	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.	Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
VERSION	1 (bases 1 to 1734)	REFERENCE
KEYWORDS		1 (bases 1 to 1734)
SOURCE		
ORGANISM		
REFERENCE		

VERSION	AR067576.1	GI:5998798	JOURNAL	Mol. Cell. Endocrinol.	89 (1-2), 141-151 (1992)
KEYWORDS	Unknown.		PUBMED	1301382	
SOURCE	Unknown.		REMARK	GenBank staff at the National Library of Medicine created this entry [NCBI Gibbs 130880] from the original journal article.	
ORGANISM	Unclassified.		FEATURES	Location/Qualifiers	
REFERENCE	1 (bases 1 to 2179) de la Chapelle,A., Huhtaniemi,I. and Aittomaki,K.		source	1 . 2179	/organism="Homo sapiens"
AUTHORS	Method for diagnosis of ovarian dysgenesis				/mol_type="mRNA"
JOURNAL	Patent: US 5851768-A 1-22-DEC-1998;				/db_xref="taxon:9606"
FEATURES	Location/Qualifiers				/gene="follicle stimulating hormone receptor, FSH receptor"
SOURCE	1 . 2179				/version="75 . 2162"
ORGANISM	/organism="unknown"				/gene="follicle stimulating hormone receptor, FSH receptor"
	/mol_type="unassigned DNA"				/note="FSH receptor"
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Db	86 GAGCAGGCCATATTAT 69				/translation="MALLVYLLAPLSSLGSGCHHRICHCSNRVFLCQBSKVTEIPSDL
RESULT 6					PRNAELRFLPTKVRQGAFSGFDLNLQDNDVIEAVFSNPKLKHITI
LOCUS	AR207283/c	2179 bp			EKANNLYINPEAQNPLQYLISNTGKHLIDVVKHSLOKVLIDODNINTHITI
DEFINITION	Sequence 1 from patent US 6372711.	DNA			ERNSEPVGLSPESBVILWLNKG1QE1HNCAGTQLDNLNLSDNNLLELDNFVHGS
ACCESSION	AR207283	linear			APFANWRDQSELHPICNSKLRLQEDVDMYTRGRGSSLAEDNESSYSRGFDMTYTFD
VERSION	AR207283.1	PAT 20-JUN-2002			YDLCKNEDVDTCTSPKAQPCDIMGANLRLVLIWFLSTLAIQNLIVLVLTSQY
KEYWORDS	GI:21506147				KLTIVPFRMLNLAFAADLCIGYLILLIASVDIHTQSYYRAIDMQTGAGDDAAGFTV
SOURCE	Unknown.				FASELSVYVTLTAILERTMTITHAMOLDKVQLRHAASVMWMGIFAFAAALPFIGI
ORGANISM	Unknown.				SSMKVSIICLPMDIDSPLSOLVYNSSLVNLNLAFLVICCGCYTHYLTVRNPNVISSS
Unclassified.					DTRIAKRMALIFTDFLMCNAPISFVPLVSKPLVPSAKLILVFLAPINSCANPP
REFERENCE	1 (bases 1 to 2179) Kelton,C.Ann., Cheng,S.Vai.Yen., Nugent,N.Patrice. and				LYAFTGTCNPRDFEFFLSSKGCGYEMQAQIYRTETSTVNHTPRNGHCSAAPTNGS
AUTHORS	Schweickhardt,R.Lynn.				TYLVPPLSHLAQN"
TITLE	Methods for assaying human FSH using human FSH receptor				
JOURNAL	Patent: US 6372711-A 1-16-APR-2002;				
FEATURES	Location/Qualifiers				
SOURCE	1 . 2179				
ORGANISM	/organism="unknown"				
ORIGIN	/mol_type="unassigned DNA"				
Query Match	Score 18; DB 6; Length 2179;				
Best Local Similarity	100.0%; Pred. No. 5.6;				
Matches	18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
Qy	1 GAGCAGGCCATATTAT 18				
Db	86 GAGCAGGCCATATTAT 69				
RESULT 8					
LOCUS	S59900	2179 bp			HUMFSREC/C mRNA linear PRI 08-NOV-1994
DEFINITION	follicle stimulating hormone receptor [human, testis, mRNA, 2179 nt]				HUMFSREC follicle stimulating hormone receptor mRNA, complete cds.
ACCESSION	S59900				DEFINITION H.sapiens
VERSION	S59900.1				ACCESION M95489
KEYWORDS					VERSION M95489.1
SOURCE	Homo sapiens (human)				KEYWORDS GI:182772
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				G-protein coupled receptor; follicle stimulating hormone (FSH) receptor.
REFERENCE	1 (bases 1 to 2186)				SOURCE Homo sapiens (human)
AUTHORS	Tilly,L.T., Ahara,T., Nishimori,K., Jai,X., Billig,H., Kowalski,K.I., Perlas,E.A. and Hsueh,A.J.W.				ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
TITLE	Expression of recombinant human follicle-stimulating hormone receptor: Species-specific ligand binding, signal transduction, and identification of multiple ovarian messenger ribonucleic acid				COMMENT Endocrinology (1992) In press
JOURNAL					FEATURES
FEATURES					Original source text: Homo sapiens male adult testis cDNA to mRNA.
SOURCE					Location/Qualifiers
ORGANISM	Homo sapiens				1 . 2186
DEFINITION	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				/organism="Homo sapiens"
ACCESSION	S59900	2179 bp			/mol_type="mRNA"
VERSION	S59900.1	mRNA linear			/db_xref="taxon:9606"
KEYWORDS					/map="Unassigned"
SOURCE	Homo sapiens (human)				/sex="male"
ORGANISM					
REFERENCE	1 (bases 1 to 2179) Kelton,C.A., Cheng,S.V., Nugent,N.P., Schweickhardt,R.L., Rosenthal,J.L., Overton,S.A., Wands,G.D., Kuzeja,J.B., Luchette,C.A. and Chappel,S.C.				
AUTHORS	The cloning of the human follicle stimulating hormone receptor and its expression in COS-7, CHO, and Y-1 cells				
TITLE					

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 /dev_stage="adult"
 1. .2186
 /genes="FSHR"
 76. .2163
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 QPVILDISRTPLHSPLPSYGENLKLQRSTYNUKLPLKLEVLSDNNNLFLPWFHGS
 AFANMRROQISBLHPICNKSLRQEVDMTQGRGSRSSLAEDNESSYSRGFDMTYTFD
 YDLCNEVVDVDTCSPEPDAFNPCEDMGYNLRLWIFTSILATGNLIVLVLTTSQY
 KLTVPRELMNLAFADDIGYLILLIASVHITKSQYHAYALDWQTGACDAGFTV
 FASELSVVTYLTATIWERWTTTHAMQDCKVQLRHAASVMWGIFFAFAALPPIFGI
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ORIGIN

Query Match 100.0%; Score 18; DB 8; Length 2186;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 18; Conservative 0; Mismatches 0; Gaps 0;
 Features Source

Qy 1 GAGCAGGCCATAATTAT 18
 Db 87 GAGCAGGCCATAATTAT 70

RESULT 9
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 ACCESSION A76125
 VERSION A76125.1
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.
 REFERENCE AUTHORS Dijkema, R. and De L. R.
 TITLE Patent: WO 9320199-A 1-14-OCT-1993;
 JOURNAL AKZO NV (NL) DIJKEMA REIN (NL)
 FEATURES Source 1. .2222
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 /db_xref="taxon:9605"
 CDS 85. .2172
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 /evidence_experimental
 /product="FSH receptor"
 /protein_id="CBAB5859.1"
 /db_xref="G1:6088262"
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ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 2222;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 18; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 GAGCAGGCCATAATTAT 18
 Db 96 GAGCAGGCCATAATTAT 79

RESULT 10
 CQ715054/c
 DEFINITION Sequence 988 from Patent WO02068579.
 ACCESSION CQ715054
 VERSION CQ715054.1
 KEYWORDS SOURCE Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.

REFERENCE AUTHORS Veater, C.J., Adams, M.C., Li, P.W. and Myers, E.W.
 TITLE Kits, such as nucleic acid arrays, comprising a majority of
 humanexons or transcripts, for detecting expression and other uses
 thereof
 JOURNAL Patent: WO 02068579-A 988 06-SEP-2002;
 PE Corporation (NY) (US)
 FEATURES Source 1. .2374
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 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 2374;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 18; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 GAGCAGGCCATAATTAT 18
 Db 79 GAGCAGGCCATAATTAT 62

RESULT 11
 AR270646/c
 DEFINITION Sequence 1209 from patent US 6500938.
 ACCESSION AR270646
 VERSION AR270646.1
 KEYWORDS SOURCE Unknown,
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 2393)
 AUTHORS Au-Young, J. and Seilhamer, J.J.
 TITLE Composition for the detection of signaling pathway gene expression
 JOURNAL Patent: US 6500938-A 1209 31-DEC-2002;
 FEATURES Source 1. .2393
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ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 2393;
 Best Local Similarity 100.0%; Pred. No. 5.6;

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VERSION	AX548836.1	GI: 25813727												
KEYWORD														
ORGANISM	Homo sapiens (human)													
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.													
AUTHORS	Burmer, G.C., Roush, C.L. and Brown, J.P.													
TITLE	Antigenic peptides, such as for G protein-coupled receptors (GPCRs), antibodies thereto, and systems for identifying such antigenic peptides													
JOURNAL	Patent : WO 02061087-A 121 08-AUG-2002; Lifespan Biosciences, Inc. (US)													
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DEFINITION	Human follicle stimulating hormone receptor mRNA, complete cds.													
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KEYWORD				78	GAGCAGGGCCATAATTAT	61								
REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
AUTHORS	Cloning and sequencing of human FSH receptor cDNA													
JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
PUBLISHED	Original source text: Human, cDNA to mRNA.													
COMMENT	Location/Qualifiers													
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REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
AUTHORS	Cloning and sequencing of human FSH receptor cDNA													
JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
PUBLISHED	Original source text: Human, cDNA to mRNA.													
COMMENT	Location/Qualifiers													
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KEYWORD				78	GAGCAGGGCCATAATTAT	61								
REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
AUTHORS	Cloning and sequencing of human FSH receptor cDNA													
JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
PUBLISHED	Original source text: Human, cDNA to mRNA.													
COMMENT	Location/Qualifiers													
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source	/mol_type="mRNA"													
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KEYWORD				78	GAGCAGGGCCATAATTAT	61								
REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
AUTHORS	Cloning and sequencing of human FSH receptor cDNA													
JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
PUBLISHED	Original source text: Human, cDNA to mRNA.													
COMMENT	Location/Qualifiers													
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source	/mol_type="mRNA"													
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REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
AUTHORS	Cloning and sequencing of human FSH receptor cDNA													
JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
PUBLISHED	Original source text: Human, cDNA to mRNA.													
COMMENT	Location/Qualifiers													
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VERSION	1	GAGCAGGGCCATAATTAT	18											
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REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki, Y., Igarashi, M. and Minnegishi, T.													
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JOURNAL	Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)													
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REFERENCE	Minnegishi, T., Nakamura K., Takakura, Y., Ibiuki													

Center project name:	H_NH0057110	LOCUS	AC083827	158709 bp	DNA	linear	HTG 24-JAN-2002
Drafting Center:	WIBR	DEFINITION	Homo sapiens chromosome 2 clone RP11-345C21, WORKING DRAFT	SEQUENCE	23	unordered pieces.	
NOTICE:		ACCESSION	AC083827				
This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality > 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.		VERSION	AC083827.2	GI:153175221			
MAPPING INFORMATION:		KEYWORDS	HTG; HTGS; PHASE; HTGS_DRAFT.				
Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see http://genome.wustl.edu		SOURCE	Homo sapiens (human)				
SOURCE INFORMATION:		ORGANISM	Homo sapiens				
The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Cataneo, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (http://www.rgen.com) or Pieter de Jong and coworkers at http://www.chori.org		COMMENT	MO 63109, USA				
VECTOR:	PBACE3.6	JOURNAL	On Aug 30, 2001 this sequence version replaced gi:10445290.				
NEIGHBORING SEQUENCE INFORMATION:		REFERENCE	Waterson, R.H.				
The clone sequenced to the left is RP11-125F24, 2000 bp overlap. Actual start of this clone is at base position 9748 of RP11-125F24; actual end is at base position 121688 of RP11-57110.		AUTHORS					
The sequence of AC027148 has been incorporated into AC092533.		JOURNAL					
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			/clone="RP11-57110"				
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			/gene="FSHR"				
			/complement("82833..83058")				
			/gene="FSHR"				
			/complement("<82833..82984")				
			/gene="FSHR"				
			/note="Homo sapiens follicle stimulating hormone receptor (FSHR), transcript variant 1 mRNA.; H_NH005711.0.1"				
			This gene was based on gi (31657137)				
			Continues as H_NH0125F24.1"				
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			PRNATEL"				
ORIGIN							
Query Match		100.0%	score 18;	DB 8;	Length 121688;		
Best Local Similarity		100.0%	Pred. No. 5.6;	Indels 0;	Gaps 0;		
Matches 18;	Conservative	0;	Mismatches 0;				
Qy	1	GAGCACGGCCATAATTAT	18				
Db	82973	GAGCACGGCCATAATTAT	82990				
RESULT 15							
AC083827							
229887							

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OM nucleic - nucleic search, using sw mode!

Run on: November 29, 2005, 18:22:32 ; Search time 223.5 Seconds
 (without alignments)
 536.754 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagcaggccataattat 18

Scoring table: OLIGO_NUC
 Gapop 60.0 , Gapext 60.0

Searched: 4996997 seqs, 3332346308 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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	10: geneseqn2003cs:*
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	12: geneseqn2004as:*
	13: geneseqn2004bs:*
	14: geneseqn2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	18	AAC90409	Aac90409 Human FSH
C 2	18	100.0	18	AAC90408	Aac90408 Human FSH
C 3	18	100.0	1922	ADP03559	Adp03559 Human GPC
C 4	18	100.0	2019	ADC24202	Adc24202 Human NOV
C 5	18	100.0	2179	AAE63181	Aae63181 FSH recep.
C 6	18	100.0	2180	AAQ23377	Aaq23377 FSH DNA.
C 7	18	100.0	2222	AAQ50013	Aaq50013 FSH recep
C 8	18	100.0	2393	ABZ4665	Abz4665 Human foll
C 9	18	100.0	2393	ADD5503	Add5503 Birding d
C 10	18	100.0	2393	ACAS6611	Acas6611 Human sig
C 11	18	100.0	2393	AD156407	Ad156407 Human pol
C 12	18	100.0	2393	ADQ29879	Adq29879 Human GPC
C 13	15	83.3	507	ADR6224	Adr6224 Breast ca
C 14	15	83.3	612	ABT03390	Abt03390 Ovary cel
C 15	15	83.3	628	ABT03391	Abt03391 Ovary cel
C 16	15	83.3	2021	ADT19293	Adt19293 Plant cDN
C 17	15	83.3	3659	ABL12007	Ab112007 Drosophil
C 18	15	83.3	8253	ADR84405	Acr84405 Aspergill
C 19	15	83.3	9140	ABL12006	Abl112006 Drosophil

ALIGNMENTS

RESULT 1				
AAC90409/c				
ID AAC90409	standard; RNA; 18 BP.			
XX				
AC AAC90409;				
XX				
DT 19-MAR-2001	(first entry)			
XX				
DE Human FSH receptor specific antisense oligonucleotide #2.				
XX				
KW Human; cytostatic; follicle-stimulating hormone receptor; FSH;				
KW fertility; menstrual cycle; chemopreventive; chemotherapy; cancer; ss.				
XX				
OS Homo sapiens.				
XX				
PW WO2000073416-A1.				
XX				
PD 07-DEC-2000.				
XX				
PF 16-MAY-2000;	2000WO-US013488.			
XX				
PR 28-MAY-1999;	99US-0136489P.			
PR 08-OCT-1999;	99US-0158612P.			
XX				
(UYCI-) UNIV CINCINNATI.				
XX				
PI Labarbera AR, Zhu C, Wang Y;				
XX				
DR WPI; 2001-091069/10.				
XX				
PT New composition for regulating fertility, and for chemoprevention and chemotherapy of cancer, comprises an antisense oligonucleotide that is complementary to a nucleotide sequence of a follicle-stimulating hormone receptor.				
PT				
PT				
CC The present invention relates to a composition, which comprises at least one antisense oligonucleotide that is complementary to follicle-stimulating hormone receptor (FSHR) coding sequence. The present sequence is one such oligonucleotide used in the composition. The composition of the present invention can be used for regulating hormones of a host. The				
CC				
CC				
CC				

CC composition is also useful for regulating fertility and menstrual cycle.
 CC In addition, the composition is useful as a chemopreventive or
 CC chemotherapy for cancers (e.g. breast, bladder, cervix, lung, liver,
 CC ovary, colon, stomach, or especially ovarian cancers), gestational
 XX trophoblastic tumours or testicular germ cell tumours

Sequence 18 BP; 4 A; 5 C; 3 G; 0 T; 6 U; 0 Other;

SO Query Match 100.0%; Score 18; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 1.2.;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GAGCAGGGCCATAATTAT 18

RESULT 3
 ADP03559/c
 ID ADP03559 standard; DNA; 1922 BP.

XX 29-JUL-2004 (first entry)

DB Human GPCR follicle stimulating hormone receptor variant "Gene 4" DNA.

AC ADP03559;

XX DT XX

XX G-protein coupled receptor; neuroprotective; nootropic;
 KW tranquiliser; antinauseant; neuroleptic; antihistaminic; antidepressant;
 KW anticonvulsant; anti-parkinsonian; cytostatic; cardiotonic; hypotensive;
 KW analgesic; anorectic; anti-HIV; antiasthmatic; osteopathic;
 KW urticarial; antihistamine; anti-allergic; anti-HIV; anti-HCV; cell cycle regulation; neurological;
 KW severe mental retardation; dyskinetic; brain; spinal cord; affective;
 KW neoplastic; cardiovascular; immunological; immune; endocrinial; growth;
 KW eating; HIV infection; cancer; metabolic; gene therapy; human; ds; gene;
 KW chromosome identification; gene therapy; human; ds; gene;
 KW follicle stimulating hormone; FSH receptor variant.

OS Homo sapiens.

XX Location/Qualifiers
 FH 17..1753
 FT /*tag= a
 FT /product= "Human GPCR follicle stimulating hormone
 FT receptor variant 'Gene 4' protein"
 XX

Key
 FT CDS
 FT FT
 FT FT
 XX OS
 XX PN WO2003062393-A2.

XX XX
 PD 31-JUL-2003.
 XX PP 22-JAN-2003; 2003WO-US001911.
 PR 22-JAN-2002; 2002US-0350724P.
 XX PA (BRIM) BRISTOL-MYERS SQUIBB CO.
 XX PI Ramanathan CS, Gopal S, Mintier G, Feder JN;
 XX DR WPI: 2003-618283/5B.
 DR P-PSDB; ADP03510.
 XX PT New nucleic acid molecule encoding a human G-protein coupled receptor,
 PT useful for diagnosing, preventing or treating diseases involving the
 PT receptor, e.g. Parkinson's disease, dementia, asthma, hypertension or
 PT cancer.

XX XX
 PS Claim 1; SEQ ID NO 4; 224PP; English.

XX The present invention relates to a composition, which comprises at least
 CC one antisense oligonucleotide that is complementary to follicle-
 CC stimulating hormone receptor (FSHR) coding sequence. The present sequence
 CC is one such oligonucleotide used in the composition. The composition of
 CC the present invention can be used for regulating hormones of a host. The
 CC composition is also useful for regulating fertility and menstrual cycle.
 CC In addition, the composition is useful as a chemopreventive or
 CC chemotherapy for cancers (e.g. breast, bladder, cervix, lung, liver,
 CC ovary, colon, stomach, or especially ovarian cancers), gestational
 CC trophoblastic tumours or testicular germ cell tumours

Sequence 18 BP; 6 A; 3 C; 5 G; 4 T; 0 U; 0 Other;

SO Query Match 100.0%; Score 18; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 1.2.;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAATTAT 18
 |||||

CC which was isolated by the method of the invention.

XX Sequence 1922 BP; 499 A; 504 C; 387 G; 532 T; 0 U; 0 Other;
 SQ Query Match 100.0%; Score 18; DB 11; Length 1922;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACAGGGCCATATTAT 18
 Db 28 GAGCAGGGCCATATTAT 11

RESULT 4
 ADC24202/c
 ID ADC24202 standard; cDNA; 2019 BP.
 XX
 AC ADC24202;
 DT 18-DEC-2003 (first entry)
 XX Human NOV3a encoding cDNA SEQ ID NO:9.
 XX human; NOV3; cardiac; antiarteriosclerotic; hypotensive; vasotropic;
 KW dermato logical; anorectic; immunosuppressive; cytotoxic;
 KW antiinflammatory; haemostatic; anti-HIV; antiarthromian; antiinflammatory;
 KW neuroprotective; anabolic; nootropic; antiparkinsonian; gene therapy;
 KW cardiologyopathy; atherosclerosis; hypertension; congenital heart defect;
 KW pulmonary stenosis; sclero derma; obesity; metabolic disturbance; obesity;
 KW transplantation; adrenoleukodystrophy; congenital adrenal hyperplasia;
 KW prostate cancer; diabetes; metabolic disorder; neoplasm; adenocarcinoma;
 KW fertility; haemophilia; graft versus host disease; AIDS;
 KW bronchial asthma; Crohn's disease; multiple sclerosis;
 KW infection disease; anorexia; neurodegenerative disorder;
 KW Alzheimer's disease; Parkinson's disease; immune disorder;
 KW haematopoietic disorder; dyslipidaemia; wasting disorder; gene; ss.
 XX Homo sapiens.

XX
 PH Key
 PT Location/Qualifiers
 CDS 61..1962
 FT /*tag= a
 FT /product= "NOV3a"
 PN WO2003076584-A2.
 XX
 PD 18-SEP-2003.
 XX
 PP 06-MAR-2003; 2003WO-US006951.
 XX
 PR 06-MAR-2002; 2002US-0361971P.
 PR 19-MAR-2002; 2002US-0365477P.
 PR 22-MAR-2002; 2002US-0366948P.
 PR 06-AUG-2002; 2002US-0401661P.
 PR 05-MAR-2003; 2003US-00401661.
 PA (CURA-) CURAGEN CORP.
 XX
 PI Alsbrook JP, Burgess CE, Edinger SR, Gerlach VL, Ji W, Kekuda R;
 PI Li L, Macdougal JR, Miller CE, Millet I, Paturajan M, Pena CEA;
 PI Rieger DK, Sciore P, Shenoy SG, Smithson G, Spytek KA, Stone DJ;
 PI Voss EZ, Zhong M;
 XX
 DR WPI: 2003-722330/68.
 DR P-PSDB; ADC24203.
 XX
 PR New NOVX polypeptides and nucleic acids, useful for diagnosing or
 PR treating e.g. cardiomopathy, atherosclerosis, hypertension, scleroderma,
 PR obesity, prostate cancer, AIDS, bronchial asthma, Crohn's disease, or
 PR multiple sclerosis.
 XX
 Claim 20; SEQ ID NO 9; 229pp; English.
 XX
 PS

CC The present invention describes novel human proteins, designated NOVX
 CC proteins. The NOVX sequences have cardiac, antiarteriosclerotic, anti-HIV, immunosuppressive,
 CC hypotensive, vasotropic, dermatological, anorectic, immunosuppressive,
 CC cytostatic, antiinfertility, haemostatic, neuroprotective, anabolic, nootropic and
 CC antiinflammatory, neuroprotective, anabolic, nootropic, dermatological, anti-HIV, antiasthmatic,
 CC antiparkinsonian activities, and can be used in gene therapy. The NOVX
 CC sequences can be used as a therapeutic in the manufacture of a medicament
 CC for treating a syndrome associated with a human disease, such as a
 CC pathology associated with NOVA. The NOVX proteins and nucleic acids
 CC encoding them are useful for diagnosing or treating pathologies, diseases
 CC or conditions associated with NOVX sequences, including cardiomopathy,
 CC atherosclerosis, hypertension, congenital heart defects, pulmonary
 CC stenosis, scleroderma, obesity, metabolic disturbances associated with
 CC obesity, transplantation, adrenoleukodystrophy, congenital adrenal
 CC hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm,
 CC adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,
 CC bronchial asthma, Crohn's disease, multiple sclerosis, infectious
 CC disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease,
 CC or Parkinson's disease), immune disorders, haematopoietic disorders,
 CC dyslipidaemias, and wasting disorders associated with chronic diseases.
 CC The proteins can also be used as immunogens to produce antibodies and as
 CC vaccines. The sequences may further be used in chromosome mapping (tissue typing),
 CC and in minute biological samples (tissue typing). The present
 CC sequence encodes human NOV3a from the present invention.
 XX Sequence 2019 BP; 527 A; 514 C; 411 G; 567 T; 0 U; 0 Other;
 SQ Query Match 100.0%; Score 18; DB 10; Length 2019;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GAGCAGGGCCATATTAT 18
 Db 72 GAGCAGGGCCATATTAT 55

RESULT 5
 AAT63181/c
 ID AAT63181 standard; DNA; 2179 BP.
 XX
 AC AAT63181;
 XX
 DT 20-JUN-1997 (first entry)
 XX
 DE FSH receptor gene wild-type allele.
 XX
 KW Follicle stimulating hormone receptor; FSH receptor; ovarian dysgenesis;
 KW hypergonadotropic hypogonadism; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT exon
 FT 70..227
 FT /note= "nucleotides 70-227 correspond to nucleotides 1-158 of fshr exon 2"
 FT exon
 FT 75..2159
 FT /*tag= C
 FT /note= "nucleotides 228-298 correspond to nucleotides 7-80 of fshr exon 3"
 FT exon
 FT 374..450
 FT /*tag= C
 FT /note= "nucleotides 82 of fshr exon 4"
 FT exon
 FT 451..520
 FT /*tag= C

PT /note= "nucleotides 451-520 correspond to nucleotides 8-77 of fshr exon 5" XX 25-MAR-2003 (revised)
 FT 521..598 DT 04-MAR-1993 (first entry)
 FT /*tag= C XX
 FT /note= "nucleotides 521..598 correspond to nucleotides 6-83 of fshr exon 6" XX
 FT 599..668 DE FSHR DNA.
 FT /*tag= C XX
 FT /note= "nucleotides 599-668 correspond to nucleotides 6-75 of fshr exon 7" XX
 FT mutation KW Human; follicle stimulating hormone receptor; maturation;
 FT /*tag= b KW spermatogenesis; birth control; ss.
 FT /*tag= b XX
 FT /note= "a C to T mutation in codon 189 correlates with Homo sapiens.
 FT ovarian dysgenesis" XX
 FT 669..742 Key Location/Qualifiers
 FT /*tag= C 75..2159
 FT /note= "nucleotides 669-742 correspond to nucleotides 7-80 of fshr exon 8" /*tag= a
 FT 73..928 /*tag= b
 FT /*tag= C /*tag= b
 FT /note= "nucleotides 743-928 correspond to nucleotides 6-191 of fshr exon 9" /*tag= b
 FT 929..2179 /*tag= b
 FT /*tag= C /*tag= b
 FT /note= "nucleotides 929-2179 correspond to nucleotides 102-1352 of fshr exon 10" /*tag= b
 XX WO971194-A1. PN (ISTF) ARS APPL RES SYST HOLDING NV.
 PN XX PD 01-OCT-1992.
 XX PT 92WO-US000122.
 XX PI Kelton CA, Cheng SVY, Nugent NP, Schweichhardt RL;
 XX PR 15-MAR-1991; 91US-00670085.
 XX PA (WPI; 1992-349206/42.
 XX DR P-PSDB; AAR29377.
 XX PT Pure human FSH receptor fragments and mutants - for preventing follicle growth, maturation and spermatogenesis, also for use of appropriate cell lines for bio-assays of FSH.
 XX PR Claim 7; Page 25; 48pp; English.
 XX PS The DNA sequence encoding human follicle stimulating hormone receptor (FSHR) was obd. by screening a lambda gt11 cDNA library constructed from CC RNA extracted from human testis and amplified, with a rat FSHR cDNA clone CC as a probe. Positive colonies were used for a secondary screen which CC isolated five putative human FSHR clones. None of the clones contained CC the complete FSHR coding region but could be overlapped using GCG to CC give the complete sequence. FSHR binds to FSH to reduce endogenous FSH CC biotactivity, in females to prevent follicle growth and maturation and in CC males to prevent spermatogenesis, i.e. as a birth control agent. (Updated on 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 2180 BP; 577 A; 560 C; 444 G; 599 T; 0 U; 0 Other; SQ Sequence 2180 BP; 577 A; 560 C; 444 G; 599 T; 0 U; 0 Other;
 XX PS Claim 17; Page 18-21; 43pp; English.
 XX PT Diagnosis of ovarian dysgenesis and carriers from DNA abnormalities - by amplifying DNA codes for human follicle stimulating hormone receptor allele(s), PT i.e. codon 189, cleaving fragments, and examination.
 XX PS A DNA sequence (AT61181) comprises the coding region from exons 1-10 of CC the wild-type fshr gene that codes for human follicle stimulating hormone CC (FSH) receptor (AAW14782). A C to T mutation in exon 7 (codon 189) is CC associated with ovarian dysgenesis. In a method for determining a FSH CC receptor genotype in a human patient, fshr exon 7, or a portion of it, is CC isolated by PCR amplification (see also AAT61195-96) and exposed to BsmI. CC Exon 7 contains a unique BsmI site which, if mutated, will produce no CC BsmI digestion products, thereby enabling diagnosis of ovarian dysgenesis XX SQ Sequence 2179 BP; 575 A; 561 C; 444 G; 599 T; 0 U; 0 Other;
 CC Query Match 100.0%; Score 18; DB 2; Length 2179; SQ Sequence 2179 BP; 575 A; 561 C; 444 G; 599 T; 0 U; 0 Other;
 CC Best Local Similarity 100.0%; Pred. No. 1..3; AC AAQ50013;
 CC Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0; AC AAQ50013;
 CC RESULT 7 AAQ50013/C
 CC ID AAQ50013 Standard; CDNA to mRNA; 2222 BP.
 CC XX AC AAQ50013;
 CC XX AC AAQ50013;
 CC DT 25-MAR-2003 (revised)
 CC ID AAQ29377/C DT 05-MAY-1994 (first entry)
 CC XX DB 87 GAGCAGGGCCATAATTAT 70 DB FSH receptor.
 CC XX AC AAQ29377;

KW FSH; receptor; follicle stimulating hormone; GST;
 KW glutathione-S-transferase; Primer; PCR; amplification;
 KW polymerase chain reaction; Probe; antibody; overstimulation; ds.
 XX
 Homo sapiens.
 OS
 Key Location/qualifiers
 PH 85 .2172 / *tag= a
 PT product= "FSH_receptor"
 FT primer_bind 136 .151 / *tag= b
 PT /note= "First primer for GST-FSH-R1 and for GST-FSH-R2"
 FT primer_bind 763 .776 / *tag= d
 PT /note= "primer for GST-FSH-R3"
 FT primer_bind complement(770 .787)
 FT / *tag= f
 PT /note= "primer for GST-FSH-R2"
 FT primer_bind complement(1167 .1183)
 FT / *tag= e
 PT /note= "primer for GST-FSH-R1 and for GST-FSH-R3"
 FT primer_bind 1168 .1183 / *tag= C
 PT /note= "primer for GST-FSH-R3"
 XX WO9320199-A1.
 PN
 XX 14-OCT-1993.
 PD DR
 XX 29-MAR-1993; 93WO-EP000780.
 PP DR-P-PSDB; ABP81819.
 XX
 PR New isolated antigenic peptides e.g., for G protein-coupled receptors
 PT PT (GPCR), useful for diagnosing and designing drugs for treating conditions
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
 PT autoimmune diseases.
 XX
 PA Burmer GC, Roush CL, Brown JP;
 PI
 XX WPI; 2003-046718/04.
 DR DR
 XX P-PSDB; ABP81819.
 XX
 PR New isolated antigenic peptides e.g., for G protein-coupled receptors
 PT PT (GPCR), useful for diagnosing and designing drugs for treating conditions
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
 PT autoimmune diseases.
 XX
 PA Disclosure; Fig 1; 523pp; English.
 PS
 XX The present invention describes antigenic peptides (I) comprising: (a)
 CC any one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino
 CC acids. Also described: (1) an assay for the detection of a particular G
 CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample,
 CC and (2) an isolated antibody having high specificity and high affinity or
 CC avidity for a particular GPCR (I) can be used as GPCR modulators and in
 CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
 CC antibody against a particular GPCR, and in the production of specific
 CC antibodies. The peptides and antibodies are also useful for detecting the
 CC presence or absence of corresponding GPCRs. The antigenic peptides for
 CC GPCRs and antibodies are useful for diagnosing and designing drugs for
 CC treating immune-related diseases, growth-related diseases, cell
 CC regeneration-related disease, immunological-related cell proliferative
 CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
 CC atherosclerosis, bacterial, fungal, protozoan or viral infections,
 CC osteoarthritis, osteoporosis, cancer, cardiologyopathy, chronic and acute
 CC inflammation, allergies, Crohn's disease, multiple sclerosis, pain, psoriasis,
 CC sequence, Parkinson's disease, schizophrenia, dementia, mental retardation, memory
 CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension, trauma, ulcers, or
 CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or
 CC any other disorder in which GPCRs are involved. The antibodies may be
 CC used in immunoassays and immunodiagnosis. AB242523 to AB242869 encode
 CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
 CC exemplification of the present invention
 XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ Query Match 8 Best Local Similarity 100.0%; Score 18; DB 8; Length 2393;
 ID AB242665 standard; DNA: 2393 BP.
 XX
 AC AB242665;
 XX
 DT 04-MAR-2003 (first entry)
 DB 96 GAGCAGGGCCATATTAT 18
 QY 1 GAGCAGGGCCATATTAT 18
 DB 96 GAGCAGGGCCATATTAT 79
 SQ Result 8 ABP42665/C Best Local Similarity 100.0%; Pred. No. 1..3;
 ID AB242665 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 AC AB242665;
 XX
 DT 04-MAR-2003 (first entry)
 DB

RESULT 9
 ADD25503/C
 ID ADD25503 standard; DNA; 2393 BP.
 XX
 AC ADD25503;
 XX
 DT 15-JAN-2004 (first entry)
 DB Binding domain-immunoglobulin fusion protein-associated DNA #36.
 XX
 KW ds; Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarrhythmic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; Barcoma;
 KW rheumatoid arthritis; myasthenia Gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 PP 25-JUL-2002; 2002US-00207655.
 XX
 PR 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-0053330.
 PR 03-JUN-2002; 2002US-0385691P.
 XX
 PA (GENE-) GENECRAFT INC.
 XX
 PI Hayden-Ledbetter MS, Thompson PA;
 XX
 DR WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX
 PS Disclosure; SEQ ID NO 64; 157PP; English.
 XX
 CC Unidentified.
 XX
 SQ Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ Score 18; DB 10; Length 2393;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GAGCAGGGCCATAATTAT 18
 Db 78 GAGCAGGGCCATAATTAT 61
 RESULT 11
 AD156407/c
 ID AD156407 standard; DNA; 2393 BP.
 XX
 AC AC56611;
 XX
 DT 06-JUN-2003 (first entry)
 DE Human signalling pathway polynucleotide probe SEQ ID NO 1209.
 XX
 Human; Probe; ss; array element; Parkinson's disease;
 XX
 signalling pathway population; cancer; adenocarcinoma; leukaemia;
 KW immunopathy; AIDS; asthma; neuropathy; Alzheimer's disease; microarray.
 XX
 Homo sapiens.

RESULT 10
 AC56611/C
 ID ACA56611 standard; CDNA; 2393 BP.
 XX
 AC AC56611;
 XX
 DT 06-JUN-2003 (first entry)
 DE Human signalling pathway polynucleotide probe SEQ ID NO 1209.
 XX
 Human; Probe; ss; receptor-like polypeptide; transducing polypeptide;
 KW effector-like polypeptide; cancer; immunopathology; neuropathology;
 KW drug development; toxicology; carcinogenicity;
 KW signalling pathway polypeptide; adrenal gland; bladder; bone;
 KW bone marrow; brain; breast; cervix; tumour; immunopathology; ATNs;
 KW diabetes; panreatitis; osteoporosis; ulcerative colitis; neuropathology;
 KW dementia; amnesia; epilepsy; Alzheimer's disease; depression.
 XX
 OS

OS Homo sapiens.
 XX US2004010136-A1.
 PN XX
 XX 15-JAN-2004.
 PD XX
 XX 26-NOV-2002; 2002US-00305720.
 PP XX
 PR XX
 PA XX
 (INCYT-) INCYTE GENOMICS INC.
 XX
 Au-Young J, Seilhamer DJ;
 PI XX
 XX DR
 DR WPI; 2004-090520/09.
 XX
 PT New composition comprising polynucleotide probes, useful as array
 PT elements in a microarray for monitoring the expression of target
 PT polynucleotides or purifying a subpopulation of mRNAs, cDNA, or genomic
 PT fragments.
 XX
 PS Claim 6; SEQ ID NO 1209; 73pp; English.
 XX
 CC The invention relates to a composition of polynucleotide probes
 CC comprising first polynucleotide probes comprising at least a portion of a
 CC gene encoding a receptor-like polypeptide, second polynucleotide probes
 CC comprising at least a portion of a gene encoding a transducing
 CC polypeptide and third polynucleotide probes comprising at least a portion
 CC of a gene encoding an effector-like polypeptide. The probes of the
 CC composition are useful as array elements in a microarray for monitoring
 CC the expression of target polynucleotides. The microarray is useful in the
 CC diagnosis and treatment of cancer, an immunopathology or a
 CC neuropathology. It can also be used for drug discovery and development,
 CC toxicological and carcinogenicity studies, forensics or pharmacogenomics.
 CC Microarrays can also be used for monitoring the progression of diseases
 CC that may be associated with the altered expression of signalling pathway
 CC polypeptides. The composition can also be used to purify a subpopulation
 CC of mRNAs, cDNAs, or genomic fragments in a sample. The expression profile
 CC is also useful for the diagnosis and treatment of cancer, e.g. cancers of
 CC the adrenal gland, bladder, bone, bone marrow, brain, breast or cervix,
 CC an immunopathology, e.g. AIDS, diabetes, pancreatitis, osteoporosis or
 CC ulcerative colitis, or a neuropathology, e.g. dementia, amnesia,
 CC epilepsy, Alzheimer's disease or depression. This sequence represents a
 CC human polynucleotide probe of the invention. Note: The sequence data for
 CC this patent did not form part of the printed specification but was
 CC obtained in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html.
 XX
 Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ Query Match Similarity 100.0%; Score 18; DB 12; Length 2393;
 Best Local Similarity 100.0%; Pred. No. 1.3; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0;
 Qy 1 GAGGAGGCCATATTAT 18
 Db 78 GAGGAGGCCATATTAT 61
 RESULT 12
 AD029879/C
 ID AD029879 standard; cDNA; 2393 BP.
 XX
 AC AD029879;
 XX 29-JUL-2004 (First entry)
 XX
 DE Human GPCR FSHR polynucleotide, SEQ ID NO:981.
 XX
 KW G protein-coupled receptor GPCR; drug screening; diagnosis;
 KW colon disorder; neurological disorder; adrenal gland disorder;
 KW muscular disorder; blood disorder; immune disorder; bone disorder;

Best Local Similarity 100.0% ; Pred. No. 1.3 ; Matches 18 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;	DE XX KW KW KW KW OS XX	Ovary cell-specific DNA sequence 106.
Qy 1 GAGCAGGGCCATAATTAT 18		Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
Db 78 GAGCAGGGCCATAATTAT 61		ovary specific protein; ovarian cancer; breast cancer; BB ; vaccine; gene therapy.
		Homo sapiens.
RESULT 13		XX
ABR26224 Standard; DNA; 507 BP.	PN WO200238606-A2.	
ID ADR26224	PD 16-MAY-2002.	
XX	XX	
AC ADR26224;	PP 07-NOV-2001; 2001WO-US016459.	
XX	XX	
DT 21-OCT-2004 (first entry)	PR 08-NOV-2000; 2000US-0246640P.	
XX	XX	
DB Breast cancer prognosis marker #2085.	PA (DIAD-) DIADEXUS INC.	
XX	XX	
KW ds ; breast cancer; prognosis; gene expression; diagnosis.	PI Sun Y, Recipon H, Salceda S, Liu C;	
XX	XX	
OS Homo sapiens.	XX DR WPI; 2002-519297/55.	
XX	XX	
PN WO2004065545-A2.	XX Polypeptide and polynucleotides present in normal and neoplastic ovary	
XX	PT cells, useful for identifying, monitoring, staging, diagnosing,	
PD 05-AUG-2004.	PT preventing and treating ovarian cancer, and non-cancerous disease states	
XX	PT in the ovary.	
PF 15-JAN-2004; 2004WO-US001100.	XX XX	
XX	PS Claim 1; Page 192; 247pp; English.	
PR 15-JAN-2003; 2003US-003424887.	XX CC	The invention comprises amino acid and DNA sequences which are present in
XX	CC normal and neoplastic ovarian cells. The DNA and protein sequences of the	
PA (ROSE-) ROSETTA INPHARMATICS LLC.	CC CC	invention are useful for determining the presence of an ovary specific
PA NETHERLANDS CANCER INST.	CC CC	nucleic acid or an ovary specific protein in a sample. The DNA and
XX	CC CC	protein sequences of the invention are useful for diagnosing and
PI Van't Veer LJ, He Y;	CC CC	monitoring the presence and metastasis of ovarian cancer and breast
XX	CC CC	cancer. Nucleotides ABT03285 - ABT03421 represents the ovary cell
DR 2004-593473/57.	CC CC	specific DNA sequences of the invention
XX	XX SQ Sequence 612 BP; 202 A; 112 C; 108 G; 190 T; 0 U; 0 Other;	
PT Classifying a breast cancer patient according to prognosis comprises	XX SQ Query Match 83.3%; Score 15; DB 6; Length 612;	
PT determining the similarity between the level of expression of each of	XX PS Best Local Similarity 100.0%; Pred. No. 64;	
PT five genes in a cell sample taken from patient, to control levels.	XX MM Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
XX Disclosure: SEQ ID NO 2085; 226pp; English.	QY 2 AGCAGGGCCATAATT 16	
XX	DB 303 AGCAGGGCCATAATT 289	
CC The invention relates to a method of classifying a breast cancer patient	RESULT 15 ABT03391/C	
CC according to prognosis by determining the similarity between the level of	ID ABT03391 Standard; DNA; 628 BP.	
CC expression of each of five genes for which markers are listed in the	XX AC ABT03391;	
CC specification, in a cell sample taken from the breast cancer patient, to	XX DT 28-NOV-2002 (first entry)	
CC control levels of expression for each respective five genes to obtain a	XX DE Ovary cell-specific DNA sequence 107.	
CC patient similarity value. The methods are useful for classifying a breast	XX KW Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;	
CC cancer patient according to prognosis. Kits and computer program products	XX KW ovarian specific protein; ovarian cancer; breast cancer; BB ; vaccine;	
CC are useful for data analysis using the diagnostic, prognostic and	XX KW gene therapy.	
CC statistical methods of the invention. This sequence corresponds to a	XX KW Homo sapiens.	
CC marker used in the method of the invention.	XX OS XX	
XX Sequence 507 BP; 151 A; 103 C; 90 G; 163 T; 0 U; 0 Other;		
XX		
SQ Query Match 83.3%; Score 15; DB 13; Length 507;		
Best Local Similarity 100.0% ; Pred. No. 64;		
Matches 15 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;		
Qy 2 AGCAGGGCCATAATT 16		
Db 163 AGCAGGGCCATAATT 177		
RESULT 14 ABT03390/C		
ID ABT03390 Standard; DNA; 612 BP.		
XX AC ABT03390;		
XX DT 28-NOV-2002 (first entry)		
XX		

PA (DIAD-) DIADEXUS INC.
XX
PI Sun Y, Recipon H, Salceda S, Liu C;
XX
DR WPI; 2002-519297/55.

PP Polypeptide and polynucleotides present in normal and neoplastic ovary cells, useful for identifying, monitoring, staging, diagnosing, preventing and treating ovarian cancer, and non-cancerous disease states in the ovary.

PR XX

PT XX

ABN 1; Page 192-193; 247PP; English.

CC The invention comprises amino acid and DNA sequences which are present in normal and neoplastic ovary cells. The DNA and protein sequences of the invention are useful for determining the presence of an ovary specific nucleic acid or an ovary specific protein in a sample. The DNA and protein sequences of the invention are useful for diagnosing and monitoring the presence and metastasis of ovarian cancer and breast cancer. Nucleotides ABT0325 - ABT0321 represents the ovary cell specific DNA sequences of the invention.

CC XX

CC Sequence 628 BP; 202 A; 115 C; 102 G; 209 T; 0 U; 0 Other;

CC SQ

Query Match 83.3%; Score 15; DB 6; Length 628;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGGCTAAATT 16

DB 319 AGCHGGGGCTAAATT 305

Search completed: November 29, 2005, 23:12:28
Job time : 227.5 secs

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OM nucleic - nucleic search, using SW mode!

Run on: November 29, 2005, 17:06:31 ; Search time 72 Seconds
(without alignments)

444.390 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagaggccataattat 18

Scoring table: OLIGO_NUC Gapext 60.0 , Gapext 60.0

Searched: 1303057 seqs, 888780828 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:*

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  3: /cgm2_6.ptodata/1/ina/6A COMB. seq:*
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  7: /cgm2_6.ptodata/1/ina/PP COMB. seq:*
  8: /cgm2_6.ptodata/1/ina/RE COMB. seq:*
  9: /cgm2_6.ptodata/1/ina/backfile.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
c 1	18	100.0	2179	2	US-08-487-886-1	Sequence 1, Appli
c 2	18	100.0	2179	2	US-08-531-070A-1	Sequence 1, Appli
c 3	18	100.0	2179	3	US-08-482-855-1	Sequence 1, Appli
c 4	18	100.0	2179	3	US-08-474-986-1	Sequence 1, Appli
c 5	18	100.0	2393	3	US-09-016-434-1209	Sequence 1209, Ap
c 6	15	83.3	481	3	US-09-270-767-1666	Sequence 1666, Ap
c 7	15	83.3	481	3	US-09-270-767-1694	Sequence 1694, Ap
c 8	15	83.3	52992	3	US-09-949-016-16105	Sequence 16105, A
c 9	14	77.8	900	3	US-09-489-039A-6996	Sequence 6996, Ap
c 10	14	77.8	1149	3	US-09-602-787A-379	Sequence 379, App
c 11	14	77.8	1887	3	US-09-620-312D-42	Sequence 42, Appli
c 12	14	77.8	3678	3	US-09-112-80-13	Sequence 112, Ap
c 13	14	77.8	3762	3	US-09-489-09A-4926	Sequence 4926, Ap
c 14	14	77.8	55264	3	US-09-949-016-15014	Sequence 15014, A
c 15	14	77.8	70828	3	US-09-949-016-12122	Sequence 12122, A
c 16	14	77.8	94755	3	US-09-949-016-11839	Sequence 11839, A
c 17	14	77.8	101951	3	US-09-949-016-15648	Sequence 15648, A
c 18	14	77.8	137226	3	US-09-949-016-13763	Sequence 13763, A
c 19	14	77.8	139936	3	US-09-949-016-11782	Sequence 11782, A
c 20	14	77.8	139952	3	US-09-949-016-13280	Sequence 13280, A
c 21	14	77.8	147840	3	US-09-949-016-15236	Sequence 15236, A
c 22	13	72.2	25	3	US-09-396-196-44948	Sequence 44948, A
c 23	13	72.2	339	3	US-09-489-039A-6054	Sequence 6054, Ap
c 24	13	72.2	459	3	US-09-248-796A-1604	Sequence 1604, Ap

ALIGNMENTS

RESULT 1-US-087-886-1/C

Sequence 1, Application US/084878866

Patent No. 5744448

GENERAL INFORMATION:

APPLICANT: Kelton, Christie Ann Schwickhardt, Rene Lynn

APPLICANT: Cheng, Shirley Yen

APPLICANT: Nugent, No. 5744446

TITLE OF INVENTION: Human Pollice Stimulating Hormone Receptor

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: Stephan P. Williams,

ADDRESS: Ares-Serono, Inc.

STREET: Exchange Place, 37th floor

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density

COMPUTER: IBM PS/2, model 55 SX

OPERATING SYSTEM: MS-DOS version 4.0

SOFTWARE: VAX/VMS Mass1 via Kermit to IBM MS-DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/487, 886

FILING DATE: 07-JUN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/670, 085

FILING DATE: 15-MAR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Williams, Stephan P.

REGISTRATION NUMBER: 28546

REFERENCE/DOCKET NUMBER: US/252

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 723-1300

TELEFAX: (617) 723-8923

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2179

TYPE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA to mRNA

ORIGINAL SOURCE:

ORGANISM: Homo sapiens
 TISSUE TYPE: Testis
 IMMEDIATE SOURCE: Clontech #HL1010b
 LIBRARY: 19T11 cDNA library, Clontech #HL1010b
 CLONE: pHSFR11-11, pHSFR15-6
 FEATURE: protein coding region
 NAME/KEY: protein coding region
 LOCATION: 75 to 2159

Query Match 100.0%; Score 18; DB 2; Length 2179;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGCCATTAATTAT 18
 Db 86 GAGCAGGCCATTAATTAT 69

RESULT 2
 US-08-531-070A-1/c
 Sequence 1, Application US/08531070A
 GENERAL INFORMATION:
 PATENT NO. 5851768
 COMPUTER READABLE FORM:
 NUMBER OF SEQUENCES: 18
 TITLE OF INVENTION: Method For Diagnosis Of Ovarian Dysgenesis
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6002
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/531,070A
 FILING DATE: 20-SEP-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Gebs, David A.
 REGISTRATION NUMBER: 38,153
 REFERENCE/DOCKET NUMBER: 28113/32879
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEX: 25-3856
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2179 base pairs
 STRANDEDNESS: Single
 TOPOLogy: linear
 MOLECULE TYPE: cDNA

Query Match 100.0%; Score 18; DB 2; Length 2179;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGCCATTAATTAT 18
 Db 86 GAGCAGGCCATTAATTAT 69

RESULT 4
 US-08-474-986-1/c
 Sequence 1, Application US/08474986
 GENERAL INFORMATION:
 PATENT NO. 6372711
 COMPUTER READABLE FORM:
 NUMBER OF SEQUENCES: 2
 TITLE OF INVENTION: Human Follicle Stimulating Hormone Receptor
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Stephan P. Williams,
 ADDRESS: Ares-Serono, Inc.
 STREET: Exchange Place, 37th floor
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
 COMPUTER: IBM PS/2, model 55 SX
 OPERATING SYSTEM: MS-DOS version 4.0
 SOFTWARE: VAX/VMS Baseline via Kermit to IBM MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/482,855
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/670,085
 FILING DATE: 15-MAR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Stephan P.
 REGISTRATION NUMBER: 28546
 REFERENCE/DOCKET NUMBER: US/252
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 723-1300
 TELEFAX: (617) 723-8923
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2179
 TYPE: Nucleic acid
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA to mRNA
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 TISSUE TYPE: Testis
 IMMEDIATE SOURCE:
 LIBRARY: 19T11 cDNA library, Clontech #HL1010b
 CLONE: pHSFR11-11, pHSFR15-6
 FEATURE:
 NAME/KEY: protein coding region
 LOCATION: 75 to 2159

Query Match 100.0%; Score 18; DB 3; Length 2179;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGCCATTAATTAT 18
 Db 86 GAGCAGGCCATTAATTAT 69

RESULT 3
 US-08-482-855-1/c

TITLE OF INVENTION: Human Follicle Stimulating Hormone Receptor
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Stephan P. Williams,
 Ares-Serono, Inc.
 STREET: Exchange Place, 37th floor
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
 COMPUTER: IBM PS/2, model 55 SX
 OPERATING SYSTEM: MS-DOS version 4.0
 SOFTWARE: VAX/TMS Mass81 via Kermit to IBM MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/474,986
 FILING DATE: 07-Jun-1995
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/670,085
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Stephan P.
 REGISTRATION NUMBER: 28546
 REFERENCE/DOCKET NUMBER: US/252
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 723-1300
 TELEFAX: (617) 723-5923
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2179
 TYPE: Nucleic acid
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA to mRNA
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 TISSUE TYPE: Testis
 IMMEDIATE SOURCE:
 LIBRARY: 19t11 cDNA library, Clontech #HL1010b
 CLONE: pHSR11-11, pHSR15-6
 FEATURE:
 NAME/KEY: protein coding region
 LOCATION: 75 to 2159
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-08-474-986-1

Qy	Db	Query Match	Best Local Similarity	Score	DB 3;	Length	2179;
		100.0%	100.0%	Pred.	No.	0.21;	
		Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;		
1	1	GNGCAGGGCCATAATTAT	18				
86	86	GAGCACGGGCCATAATTAT	69				

RESULT 5
 US-09-016-434-1209/c
 Sequence 1209, Application US/09016434
 Patent No. 6500938
 GENERAL INFORMATION:
 APPLICANT: Jeffrey J. Seilhamer
 Janice Au-Young
 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
 NUMBER OF SEQUENCES: 1490
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CALIFORNIA

GENERAL INFORMATION
 APPLICANT: Homburger et al.
 TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
 FILE REFERENCE: File Reference: 7326-094
 CURRENT FILING DATE: US/09/270/767
 NUMBER OF SEQ ID NOS: 62517
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 16948
 LENGTH: 481
 TYPE: DNA
 ORGANISM: *Drosophila melanogaster*
 US-09-270-767-16948

Query Match 83.3%; Score 15; DB 3; Length 481;
 Best Local Similarity 100.0%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAT 15
 Db 199 GACGAGGGCCATAT 185

RESULT 10
 US-09-602-787A-379/C
 Query Match 77.8%; Score 14; DB 3; Length 900;
 Best Local Similarity 100.0%; Pred. No. 45;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGCAGGGCCATAT 15
 Db 137 AGCAGGGCCATAT 124

RESULT 10
 US-09-602-787A-379/C
 Sequence 379, Application US/09602787A
 Patent No. 6596561
 GENERAL INFORMATION:
 APPLICANT: Pompelius, Mark
 APPLICANT: Kriger, Burkhard
 APPLICANT: Schuler, Hartwig
 APPLICANT: Zelder, Oskar
 APPLICANT: Haberhauer, Gregor
 TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
 INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
 TRANSPORT
 CURRENT APPLICATION NUMBER: US/09/602,787A
 CURRENT FILING DATE: 2000-06-23
 PRIOR APPLICATION NUMBER: USN 60/141031
 PRIOR FILING DATE: 1999-06-25
 FILE OF INVENTION: TRANSPORT
 FILE REFERENCE: BGI-125CP
 PRIOR APPLICATION NUMBER: DE 19931454.3
 PRIOR FILING DATE: 1999-07-08
 PRIOR APPLICATION NUMBER: DE 19931478.0
 PRIOR FILING DATE: 1999-07-08
 PRIOR APPLICATION NUMBER: DE 19931563.9
 PRIOR FILING DATE: 1999-07-08
 PRIOR APPLICATION NUMBER: DE 19931212.1
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932124.8
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932125.6
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932128.0
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932180.9
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932182.5
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932190.6
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932191.4
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932209.0
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932212.0
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932227.9
 PRIOR FILING DATE: 1999-07-09
 PRIOR APPLICATION NUMBER: DE 19932228.7
 GENERAL INFORMATION:
 APPLICANT: Gary Breton et. al
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 2709-2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIOR APPLICATION NUMBER: DE 19933005.0
 SEQ ID NO: 6996
 LENGTH: 900

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; PRIOR APPLICATION NUMBER: DE 19940765.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940766.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940830.0
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940831.9
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940832.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940833.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941395.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942077.7
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942078.5
; PRIOR APPLICATION NUMBER: DE 19942079.3
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; SEQ ID NO: 379
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE: NAME/KEY: CDS
; LOCATION: (101)..(1126)
; OTHER INFORMATION: RXN00523
US-09-602-787A-379

Query Match 77.8%; Score 14; DB 3; Length 1149;
Best Local Similarity 100.0%; Prod. No. 45; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAA 14
Db 242 GAGCAGGGCCATAA 229

RESULT 11
US-09-620-312D-42
; Sequence 42, Application US/09620312D
; Patent No. 6569652
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Cheaghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqiang
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Polypeptides
; TITLE OF INVENTION: No. 6569662ei Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19

US-09-620-312D-42

Query Match 77.8%; Score 14; DB 3; Length 3678;
Best Local Similarity 100.0%; Prod. No. 45; Mismatches 0; Indels 0; Gaps 0;

Qy 5 AGGCCATATTAT 18
Db 2492 AGGCCATATTAT 2479

RESULT 13
US-09-439-032A-4926
; Sequence 4926, Application US/09489039A
; Patent No. 6610336
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCBIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709-2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIORITY APPLICATION NUMBER: US 60/117,747
; PRIORITY FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 4926
; LENGTH: 3762
; TYPE: DNA
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; ORGANISM: Klebsiella pneumoniae
; FEATURE: misc_feature
; NAME/KEY: misc_feature
; LOCATION: (1)..(70828)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12122

Query Match 77.8%; Score 14; DB 3; Length 70828;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Gaps 0;
Indels 0;

Qy 1 GAGCAGGCCATAA 14
Db 3709 GAGCAGGCCATAA 3722

Query Match 77.8%; Score 14; DB 3; Length 70828;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Gaps 0;
Indels 0;

Qy 4 CAGGGCCATAATTA 17
Db 35400 CAGGGCCATAATTA 35413

Search completed: November 29, 2005, 18:24:59
Job time : 73 secs

RESULT 14
US-09-949-016-15014/c
Sequence 15014, Application US/0949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 15014
LENGTH: 5564
TYPE: DNA
ORGANISM: Human
US-09-949-016-15014

Query Match 77.8%; Score 14; DB 3; Length 55264;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Gaps 0;

Qy 4 CAGGGCCATAATTA 17
Db 41078 CAGGGCCATAATTA 41065

RESULT 15
US-09-949-016-12122
Sequence 12122, Application US/0949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 12122
LENGTH: 70828
ORGANISM: Human

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